

Table of Contents

1	BASIC INFORMATION	4
1.1	MANUFACTURER	4
1.2	PRODUCT	4
1.3	REVISION HISTORY	4
1.4	PRODUCT CLASSIFICATION	5
1.5	APPLICABLE STANDARDS	5
1.6	NOTES ON SAFETY	5
2	OVERVIEW	7
2.1	COMPONENTS	7
2.2	WORKFLOW	8
2.3	APPLICATION	8
3	URINE COLLECTOR	9
3.1	DESCRIPTION	9
3.2	EXTERIOR STRUCTURE AND FUNCTIONS	9
3.3	BUTTONS	12
3.4	INDICATOR	12
3.5	BATTERY	13
3.5.1	REPLACING BATTERIES	13
3.5.2	LOADING BATTERIES	13
4	OPERATING PROCEDURE	14
4.1	URINARY DIARY MODE	14
4.1.1	ENABLING THE MODE	14
4.1.2	COLLECTING URINE VOLUME	14
4.2	UROFLOMETRY MODE	15
4.2.1	ENABLING THE MODE	15
4.2.2	COLLECTING UROFLOMETRY	15
4.3	DISABLING THE URINE COLLECTOR	16

4.4	CAUTIONS	16
4.5	CLEANING AND MAINTAINING THE COLLECTOR.....	16
5	HEALTH MOBILE PHONE	18
5.1	DISTRIBUTING DEVICE.....	19
5.2	RECALLING DEVICE	23
6	FUNCTIONS ON MOBILE PHONE.....	27
6.1	SOFTWARE INTERFACES	27
6.2	FUNCTION MENU	28
6.2.1	CONFIGURATION	29
6.2.2	URINE STATISTICS.....	30
6.2.3	REMINDING.....	31
6.2.4	COLLECTING.....	32
6.2.5	SENDING.....	33
6.2.6	LOGGING OUT	34
6.2.7	EXITING SOFTWARE.....	34
6.2.8	REGULARLY COLLECTING AND UPLOADING	34
6.3	RECALL.....	34
6.4	VIEWING CONFIGURATION	35
6.5	ABOUT METS_MOBILE	35
7	CENTER SERVER	37
7.1	SYSTEM LOGIN.....	37
7.2	LOGOUT	38
7.3	COMMON OPERATIONS.....	39
7.3.1	SORTING AND SEARCHING	39
8	USER MANAGEMENT.....	40
9	DEVICE MANAGEMENT	42
9.1	HEALTH MOBILE MANAGEMENT.....	42
9.1.1	ADDING DATA.....	42

9.1.2	SEARCHING DEVICE INFORMATION	43
9.2	COLLECTOR MANAGEMENT	46
10	MEDICINE MANAGEMENT	47
10.1	MEDICINE CLASSIFICATION.....	47
10.1.1	ADDING MEDICINE TYPE	47
10.1.2	VIEWING AND EDITING MEDICINE TYPE	48
10.2	MEDICINE INFORMATION.....	49
10.2.1	ADDING NEW MEDICINE INFORMATION.....	49
10.2.2	VIEWING AND EDITING MEDICINE INFORMATION	50
10.3	MEDICATION SOLUTION	50
10.3.1	ADDING MEDICATION SOLUTION	50
10.3.2	VIEWING AND EDITING MEDICATION SOLUTION	51
11	PATIENT MANAGEMENT	54
11.1	MANAGING PATIENT MEDICAL RECORD.....	55
11.1.1	ADDING TREATMENT	57
11.1.2	TREATMENT REPORT.....	62
11.1.3	REMINDER	62
11.1.4	COMPLAINT	63
11.1.5	QUESTIONNAIRE	65
12	TREATMENT REPORT.....	68
12.1	URINARY DIARY SUMMARY	68
12.2	URINARY DIARY.....	70
12.3	UROFLOMETRY REPORT	72
12.3.1	EDITING FLASH.....	74
12.3.2	PRINT PREVIEW	76
12.4	URINARY DIARY REPORT	76

1 Basic Information

1.1 Manufacturer

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Website: <http://www.szxys.cn/>

1.2 Product

Product: Remote & Mobile Urinary Diary Monitoring System

Model: XYS.WRM-2PN

File Name: Operation Guide

SN: XYS-WRM-2PN-E-006

Version: 1.5

Date: December 2010

Language: English

1.3 Revision History

2008 China Shenzhen New Element Medical Equipment Technology Development Co., Ltd. (hereinafter referred to as the company)

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Table 1.1 shows the revision history.

Table 1.1

Date	Version	Description
09/2009	1.0	Added
08/2010	1.1	Added and modified related modules/contents in V1.1.
08/2010	1.2	Modified related modules/contents in V1.2.
12/2010	1.5	Added and modified related contents in V1.5

1.4 Product Classification


The urine collector (collector for short) is an internally powered common device, which belongs to type B instead of type AP or APG.

1.5 Applicable Standards

GB/T 191-2008; GB 9706.1-2007; GB/T 9969; GB/T 14710-2009; YY 0466-2009

1.6 Notes on Safety

 Warning: Information about how to avoid injury to operators.

 Caution: Information about how to avoid damage to devices.

Note: Important information that the reader should know.

There are , , and Notes in the following sections.

Authorized personnel: personnel trained by the company or by companies that are authorized by the company.

Read the manual carefully before operation.

Be sure to abide by rules in the manual when using the device.

2 Overview

Remote & Mobile Urinary Diary Monitoring System XYS.WRM-2PN (hereinafter referred to as the system), is developed and manufactured by the company.

The system comprises a urine collector, a health mobile phone, a special drinking cup, and a special urine collection cup. During urination, the collector automatically records and saves the urine volume, urination time, and uroflometry. Then, the collector sends the relative data to the healthcare mobile phone through the Bluetooth and automatically calculates and displays the uroflometry curve and urine volume. During urination, the collector automatically records and saves the urine volume, urination time, and uroflometry. Then, the collector sends the relative data to the healthcare mobile phone through the Bluetooth and automatically calculates and displays the uroflometry curve and urine volume. Through the health mobile phone interface, the collector can also save the drinking information. The health mobile phone automatically sends the urination and drinking information to the hospital control center in time so that a doctor can timely perform remote diagnosis on the patient. For any abnormality, the doctor can communicate with the patient through **Interaction**. When feeling uncomfortable, the patient can consult the doctor through the health mobile phone.

As a crucial part of the remote & mobile monitoring platform, the system can intelligently and automatically record urination information.

2.1 Components

The system consists of a urine collector, a healthcare mobile phone, and the server (as shown in Figure 2.1).

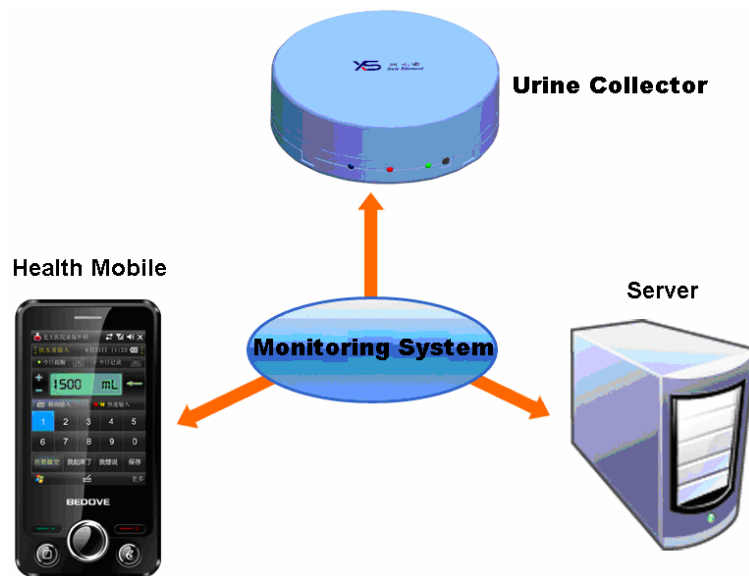


Figure 2.1 Remote & Mobile Urinary Diary Monitoring System

2.2 Workflow

The system adopts a urine collector to collect the user's daily urination information, including drinking & urination time and volume and uroflometry, and upload data to a healthcare mobile phone through the Bluetooth for intelligent analysis in real time. Meanwhile, the data is sent to the backstage server at scheduled time for recording and further analysis.

2.3 Application

The system is used to collect information about patients' time and volume of water intake and urination, and uroflometry, and then transmit the information to the hospital center server for analysis, thus, achieving remotely patient monitoring.

3 Urine Collector

3.1 Description

The urine collector automatically records each urination time and volume of users and sends the relative data to the healthcare mobile phone through the Bluetooth. A user can carry the collector easily. The built-in non-volatile memory can record the urinary information in a day.

3.2 Exterior Structure and Functions

Figure 3.1 shows the appearance of the urine collector. Table 3.1 describes the functions of each label and key.

Table 3.1

S/N	Name	Description
1	Communication indicator	The indicator flashes when the collector communicates with a healthcare mobile phone successfully. It is off after the communication is completed.
2	Mode indicator	The mode indicator indicates the modes of the urine collector.
3	Power /Measuring indicator	The indicator flashes yellow slowly if the battery level is full. It flashes red slowly if the battery level is low.
4	Mode button	Pressing the mode button to switch to the uroflometry mode.
5	Forcible communication button	Enabling the Bluetooth and switching to the communication mode.
6	Measuring surface	Placing the urine collection cup on the measuring surface to collect data after or when urination.

7	Front cover	Used to protect the measuring surface.
8	Rear cover	A part of the collector shell.
9	Label	Product information.
10	Battery compartment cover	Used to protect the battery.
11	Battery compartment	Used to hold the battery.

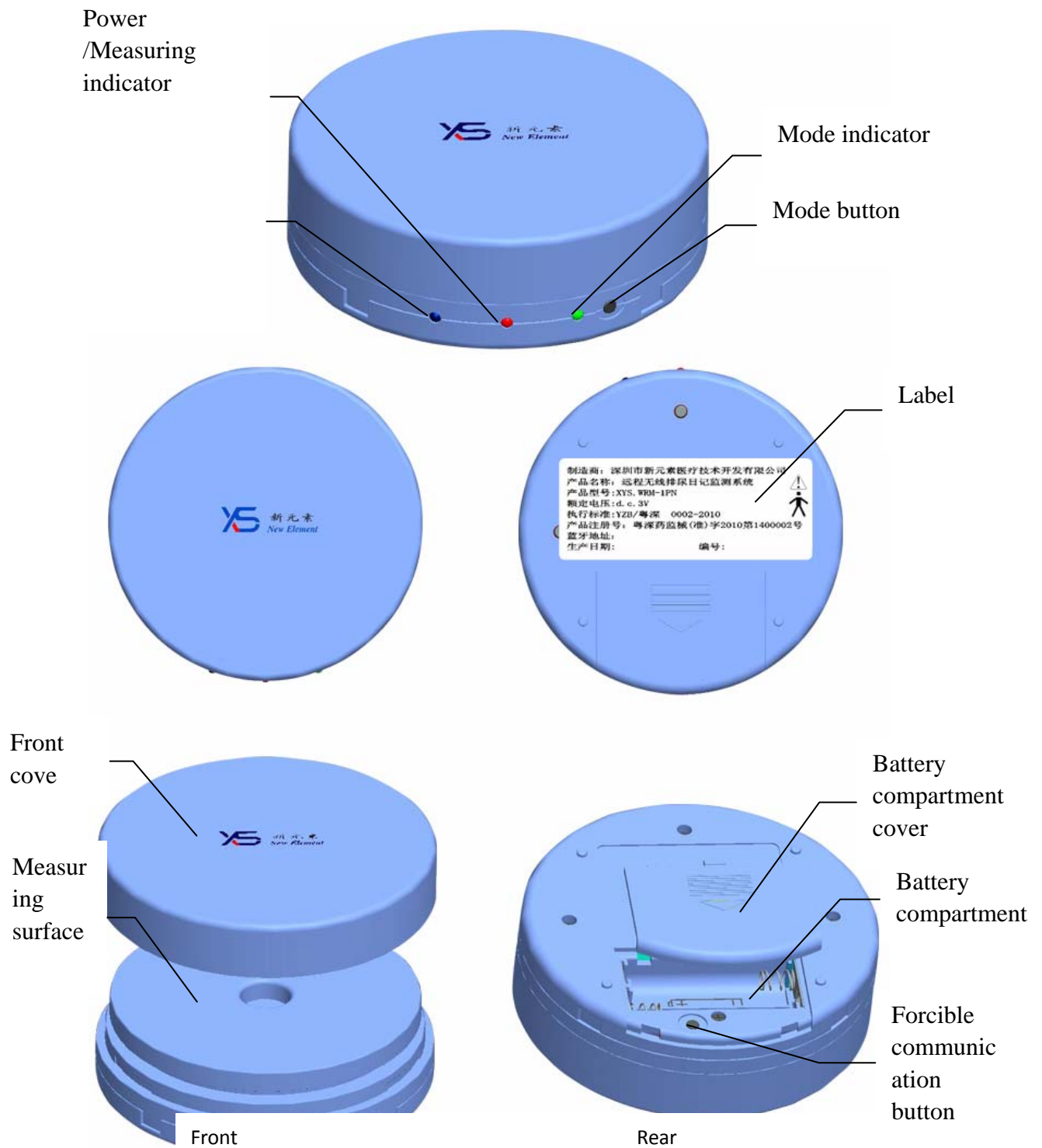


Figure 3.1 Urine collector

⚠ **Caution: Do not put heavy objects on the measuring surface.**

3.3 Buttons

There are two buttons on the urine collector. One is beside the battery compartment. The other is on the edge of the urine collector. Their functions are as follows:





Table 3-2

NO.	Name	Description
1	Mode button	Press the mode button to switch to the uroflometry mode
2	Forcible communication button	Press the button to wait for communication

3.4 Indicators

Related indicators flash when the collector is power on. For details, see Table 3.3.

Table 3-3

Image	Name	Description
  Red and yellow	Power/Measuring indicator	<p>If the indicator flashes yellow every six seconds, it indicates that the battery level is full and the collector runs normally.</p> <p>If the indicator flashes red, it indicates that the battery level is low and the available running time is less than 60 minutes.</p>
	Communication indicator	The indicator flashes quickly when the urine collector connects to an intelligent mobile phone.
	Mode indicator	When the indicator flashes quickly, it indicates the urinary diary mode.

		When the indicator flashes slowly, it indicates the uroflometry mode.
		When the indicator is normally on, it indicates completed data collection.

3.5 Battery

3.5.1 Replacing Batteries

Disposable AAA alkaline batteries are used in the urine collector. When the power indicator flashes red, replace batteries immediately.

Note: Dispose of replaced batteries in accordance with relative national regulations.

3.5.2 Loading Batteries

The procedure for loading batteries is as follows (see Figure 3.2):

- a) Remove the battery compartment cover.
- b) Load batteries with **electrodes correctly aligned**.
- c) Re-place the cover.

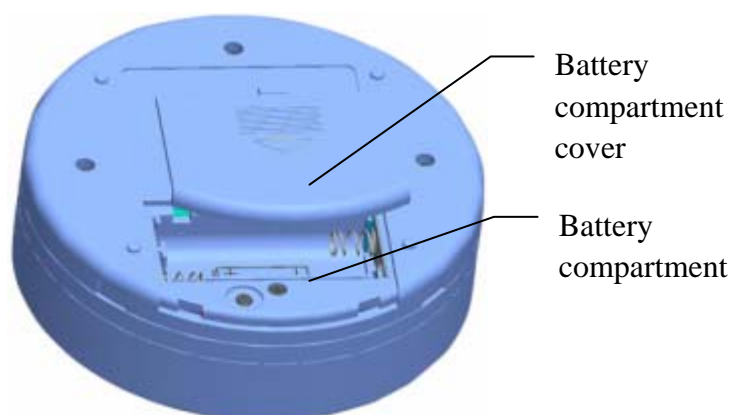


Figure 3.2 Loading batteries

⚠ Caution: **When you do not use the collector, remove the batteries to prevent corrosion.**

4 Operating Procedure

4.1 Urinary Diary Mode

4.1.1 Enabling the Mode

The urine collector accesses the standby mode once batteries are loaded. Place a urine collection cup on the measuring surface, and the collector accesses the urinary diary mode.

Before collecting the urine volume, remove the front cover and make sure the collector is completely level.

4.1.2 Collecting Urine Volume

1. Before urination, prepare an empty urine collection cup, and urinate into the cup.

Note: When collecting the urine, do not place the collection cup on the urine collector.

2. After urination, put the collection cup containing urine on the center of the measuring surface of the urine collector as instructed in the following figure.



Note: The urine collector must be placed level. Remove the front cover of the urine collector before measurement. Re-place the front cover after measurement. Do not drop urine or other fluid on the urine collector; otherwise, the device may be damaged.

3. After hearing the buzz from the urine collector, remove the urine collector cup. The urine volume is collected. Empty and wash the urine collection cup for next use.

4.2 Uroflometry Mode

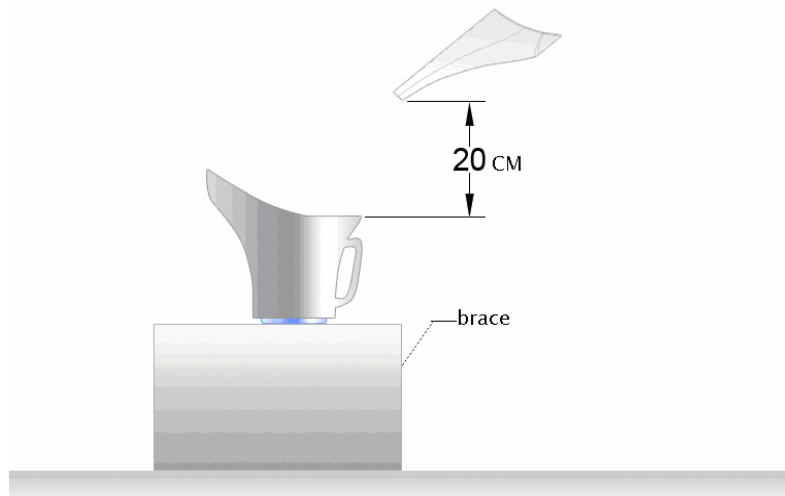
4.2.1 Enabling the Mode

The urine collector accesses the standby mode once batteries are loaded. Press the mode button for three seconds. If the mode indicator flashes quickly, it indicates the urine collector is in uroflometry mode.

Before collecting the uroflometry, remove the front cover and make sure the collector is completely level.

4.2.2 Collecting Uroflometry

1. Stand to urinate as usual and without abdominal force (the female is assisted with a fluid director).



Note: Put the urine collector and urine collection cup on a brace so that the vertical distance between the rim of the urine collection cup and the urethral orifice is less than 20 cm. In this manner, the urine can flow into the urine collection cup smoothly. When urinating, keep quiet and ensure that the volume is more than 200 mL to avoid invalid measuring data due to inadequate urine volume.

2. After urination, remove the urine collection cup. The uroflometry is collected. Empty

and wash the urine collection cup for next use.

Note: Do not press the urine collection cup when removing it; otherwise, the measuring data is inaccurate.

4.3 Disabling the Urine Collector

Recall the urine collector with the corresponding health mobile phone.


4.4 Cautions

- a) When collecting urine volume, make sure the collector is completely level.
- b) Make sure the battery level of the collector is sufficient.
- c) When collecting urine volume data, if the power/measuring indicator flashes red (as shown in Figure 3.1), it indicates the battery level is low. Replace the batteries immediately.
- d) After collection, replace the front cover of the collector to protect the measuring surface. Do not drop urine or other fluid on the urine collector.
- e) Before carrying the collector, be sure to place the cover on it.
- f) The disposable drinking cup of New Element can endure temperature ranging from -10°C to 90°C .

4.5 Cleaning and Maintaining the Collector

1. Put the collector in moist-proof, sunlight-proof, and water-proof environment with the front cover in place. Ensure the collector is level and out of children's reach. Do not put weights on the front cover.
2. When distributing devices, replace the batteries or unload and re-load the batteries.
3. Place the collector on steady surface immediately after loading the batteries. Perform the collection after the red and green indicators stop slow flash.
4. To ensure the lifecycle of the collector, do not place the collector in environment with temperature over 40°C . Unload the batteries when the collector is not used for long. Re-place the front cover and ensure the measuring surface is clean.

5. Wipe the collector with soft cloth and a mild detergent. Do not spray detergent into the collector. Otherwise, the detergent may penetrate into the collector and cause damage.
6. Do not place weights more than 2 kg on the collector. Otherwise, the collector may be damaged.
7. If any liquid is dropped on the collector, unload the batteries. Dry the collector with cloth. Ensure there is no liquid in the internal circuit, and then re-load the batteries.

 **Caution: Do not soak the collector into any liquid to avoid damage to electronic components due to excessive fluid penetration.**

5 Health Mobile Phone

To start the system on a mobile phone, you can:





- Choose **Start** -> , or
- Click **eDoctor** on the desktop, or
- Press  on the lower right of the mobile phone. For details about the appearance of the health mobile phone, see Figure 5-1.



Figure 5-1 Health mobile phone

Note: To install Remote & Mobile Urinary Diary Monitoring System V1.5 on a non-customized mobile phone, you need to copy the corresponding installation package to the mobile phone, and then install it. After installation, choose Start -> Program ->

 to run the program. Next time, you only need to choose Start -> .

5.1 Distributing Device

When a patient needs to use the system, distribute the device to the patient so that connection between the patient and device can be established. Device distribution must be operated on the mobile phone and Web terminal.

When starting the program on a mobile phone the first time, complete parameter settings.


The system displays the prompt for releasing a device on the Web terminal, as shown in Figure 5.2. Before releasing a device, make sure the health mobile phone and the collector are registered on the platform.



Figure 5.2 Prompt for releasing a device on the mobile phone

Click **OK**. The system displays the device release interface.

Note: (1) Before distributing devices, press the forcible communication button and mode button to perform calibration. (2) When the system requires you to enable the Bluetooth, you need to press the forcible communication button on the collector, as shown in Figure 3.1. Click Yes (in Figure 5.2) to release the device. The system displays a prompt to instruct you to operate on the Web terminal.

For patients to whom devices are not distributed, choose **Patient Management -> New Treatment ->**  **on the Web terminal. The system displays the Device Distribution interface, as shown in Figure 5.3. If there are available devices, the system**

displays the interface shown in Figure 5.4.

🌟 Devices Distribution																			
Name:	jojo	Gender:	Male	Age:	64	Patient ID:	114	Patient Code:	201101180002	ID Number:									
Tips for device distribution: <ol style="list-style-type: none"> 1. After accessing this page, establish the connection between the health mobile phone and collector via Bluetooth. 2. After the communication succeeds, click the "Apply Distribution" button on the mobile phone. Then, back to this page. 3. Bluetooth address of the device will be displayed. Select the devices to be distributed; 																			
Available Devices																			
No Data...																			
Health Mobile Bluetooth Address:																			
4. Please select a collector.																			
<table border="1"> <tr> <td style="width: 30%;">Collector</td> <td><input type="text" value=""/></td> </tr> </table>												Collector	<input type="text" value=""/>						
Collector	<input type="text" value=""/>																		
5. Set the following parameters																			
<table border="1"> <tr> <td style="width: 30%;">Date Upload Interval:</td> <td><input type="text" value="6"/> (Hour)</td> <td style="width: 30%;">Container Gross Weight:</td> <td><input type="text" value="60"/> g</td> </tr> <tr> <td>Use urine densimeter</td> <td><input type="radio"/> Use <input checked="" type="radio"/> Not use</td> <td></td> <td></td> </tr> </table>												Date Upload Interval:	<input type="text" value="6"/> (Hour)	Container Gross Weight:	<input type="text" value="60"/> g	Use urine densimeter	<input type="radio"/> Use <input checked="" type="radio"/> Not use		
Date Upload Interval:	<input type="text" value="6"/> (Hour)	Container Gross Weight:	<input type="text" value="60"/> g																
Use urine densimeter	<input type="radio"/> Use <input checked="" type="radio"/> Not use																		
6. Please select the questionnaire (optional)																			
<table border="1"> <tr> <td>Please select questionnaire.</td> <td><input type="text" value="Select.."/></td> </tr> </table>												Please select questionnaire.	<input type="text" value="Select.."/>						
Please select questionnaire.	<input type="text" value="Select.."/>																		
7. Please select the default time (optional)																			
<table border="1"> <tr> <td style="width: 30%;">Get-up Time:</td> <td><input checked="" type="radio"/> Irregular <input type="radio"/> Regular</td> </tr> <tr> <td>Sleep time:</td> <td><input checked="" type="radio"/> Irregular <input type="radio"/> Regular</td> </tr> </table>												Get-up Time:	<input checked="" type="radio"/> Irregular <input type="radio"/> Regular	Sleep time:	<input checked="" type="radio"/> Irregular <input type="radio"/> Regular				
Get-up Time:	<input checked="" type="radio"/> Irregular <input type="radio"/> Regular																		
Sleep time:	<input checked="" type="radio"/> Irregular <input type="radio"/> Regular																		
5. Click OK below. Return to relevant interface on the mobile phone to check doctor and patient information.																			
<input type="button" value="OK"/> <input type="button" value="Return"/>																			

Figure 5.3 Device release interface on the Web terminal (no available devices)

Devices Distribution												
Name:	jojo	Gender:	Male	Age:	64	Patient ID:	114	Patient Code:	201101180002	ID Number:		
Tips for device distribution:												
1. After accessing this page, establish the connection between the health mobile phone and collector via Bluetooth.												
2. After the communication succeeds, click the "Apply Distribution" button on the mobile phone. Then, back to this page.												
3. Bluetooth address of the device will be displayed. Select the devices to be distributed;												
Available Devices												
Operation	Health Mobile Phone Code						Health Mobile Bluetooth Address					
<input checked="" type="checkbox"/>	english-hospital0001						36:10:00:33:19:67					
Health Mobile Bluetooth Address:		english-hospital0001										
4. Please select a collector.												
Collector		xys - 00:19:5d:ee:2d:b7										
5. Set the following parameters												
Date Upload Interval:		1 (Hour)			Container Gross Weight:		60 g					
Use urine densimeter		<input checked="" type="radio"/> Use <input type="radio"/> Not use										
6. Please select the questionnaire (optional)												
Please select questionnaire.		OABSS, IPSS										
7. Please select the default time (optional)												
Get-up Time:		<input checked="" type="radio"/> Irregular <input type="radio"/> Regular										
Sleep time:		<input checked="" type="radio"/> Irregular <input type="radio"/> Regular										
5. Click OK below. Return to relevant interface on the mobile phone to check doctor and patient information.												
<input type="button" value="OK"/> <input type="button" value="Return"/>												

Figure 5.4 Device release interface on the Web terminal (with available devices)

The **Available Devices** list shows the information about available devices. You can choose either the default collector or another collector. Set the data upload interval, gross weight of the container, and timing restart time of the mobile phone. Select the questionnaire and specify the default time table. Then, click . The processing interface is displayed, as shown in Figure 5.5.

Device Distribution											
Name:	jojo	Gender:	Male	Age:	64	Patient ID:	114	Patient Code:	201101180002	ID Number:	
Health Mobile Bluetooth Address:				36:10:00:33:19:67				Collector Bluetooth Address:		00:19:5d:ee:2d:b7	
Date Upload Interval:			6 (Hour)			Container Gross Weight:			60 g		
<div style="border: 1px solid gray; padding: 5px; display: inline-block;"> Processing ... please wait ... <div style="width: 50px; height: 10px; background-color: #90EE90; margin: 5px auto;"></div> </div>											
<input type="button" value="Cancel"/>											

Figure 5-5 Processing device release

Note: If the urine collection cup of another company is used, you need to set the gross weight.

After receiving release information from the Web terminal, the mobile phone displays the device release interface, as shown in Figure 5.6.

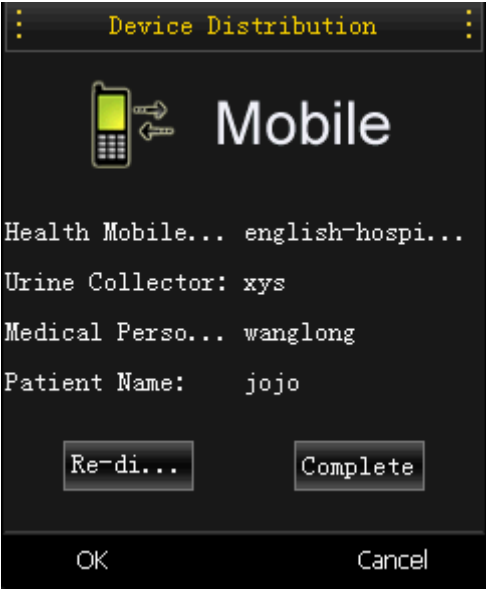


Figure 5.6 Confirming device release in the mobile phone



Figure 5.7 Water intake entering interface on the mobile phone

Confirm the information about the device, doctor, and patient. Then, click **Complete** to access the page for entering water intake, as shown in Figure 5.7. So far, the mobile phone can be used by a patient.

5.2 Recalling Device

When a patient does not use a device any more, recall the device. Operations on both the Web terminal and the mobile phone are required.

If the devices are released, click **Recall Device** to access the device recall interface, as shown in Figure 5.8.

Recall Device							
Name:	ANN	Gender:	Female	Age:	35	ID Number:	
Patient ID:	146	Patient Code:	201101130001	Mobile:			

Tips :

1. Check the patient information;

Distribution Date:	2011-01-13
Health Mobile Phone Bluetooth Address:	36:10:00:33:19:67
Collector Bluetooth Address:	00:19:5d:ee:2d:b7
Data Upload Interval:	1 (Hour)
Container Gross Weight:	60

2. Click the "Recall" button on this page;
3. A message is displayed, requesting you to wait. Then, check the mobile phone;
4. Click menu and click the "Recall" button;
5. Relevant message is displayed when the process finished.

In the case of mobile phone failure or other reasons, you can click the forcible recall button on lower right to recall the the device forcibly.

Forcible Recall

Figure 5.8 Device recall interface on the Web terminal

Click **Recall**. A dialog box is displayed, as shown in Figure 5.9.



Figure 5.9 Confirming device recall

Click **OK** to recall the device. The system displays the processing interface, as shown in Figure 5.10. Continue the operations on the health mobile phone.

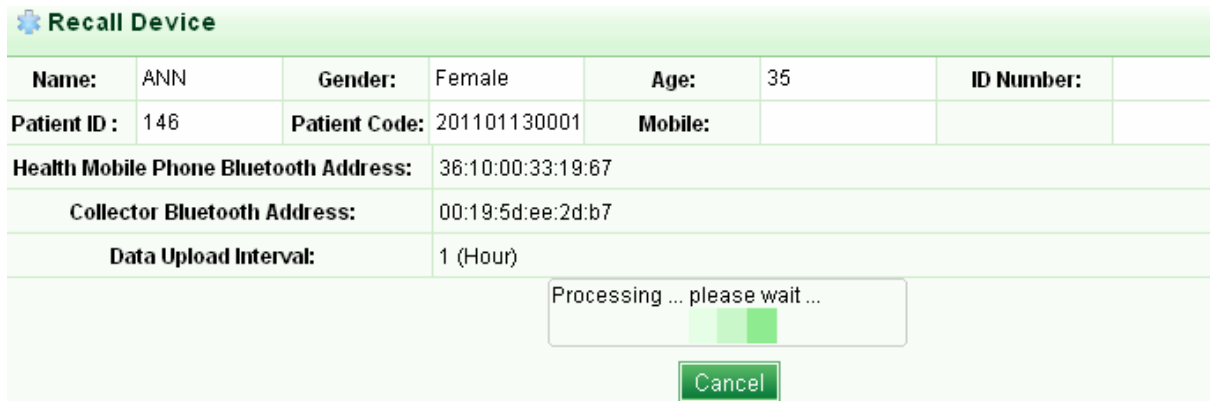


Figure 5.9 Processing device recall

Note: When the system instructs you to enable the Bluetooth of the collector, you need to press the forcible communication button.

Choose **Water Intake -> Menu -> Recall** on the health mobile phone.

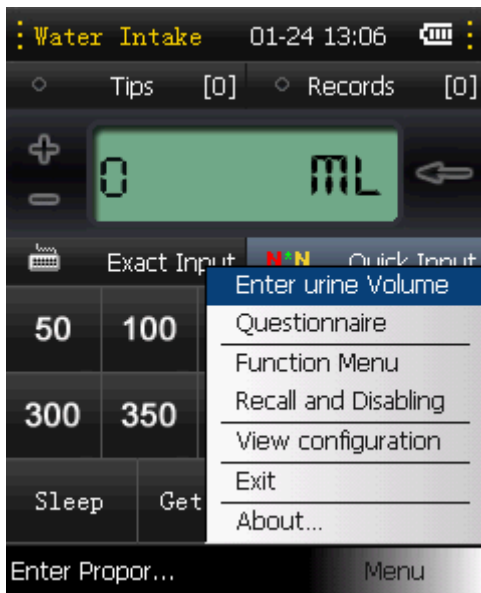


Figure 5.11

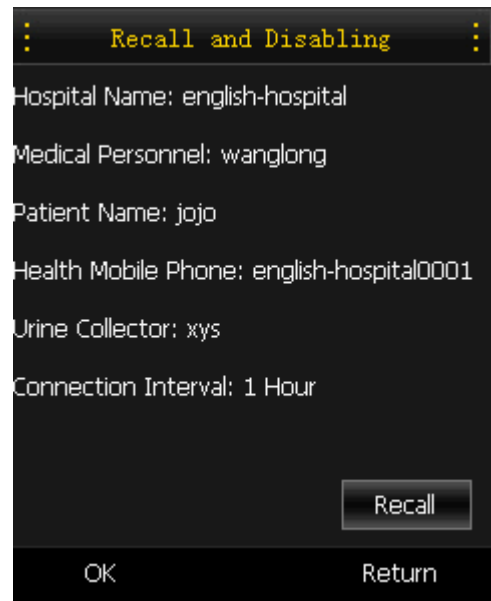


Figure 8.11 Recalling a device

The system displays the **Recall and Disabling** interface, as shown in Figure 5.12. Click **Recall**. The system displays a prompt, as shown in Figure 5.13.

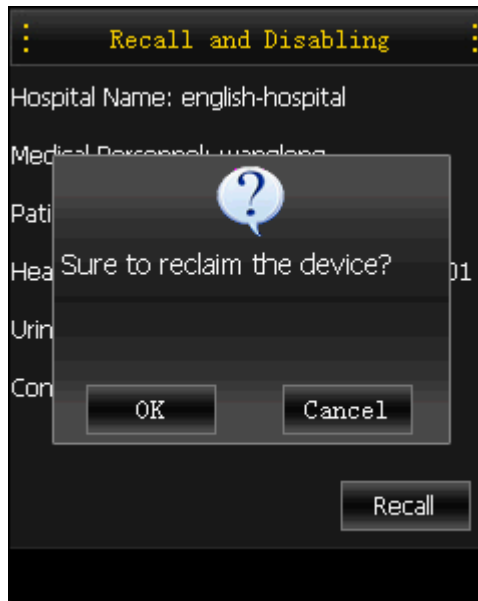


Figure 5.13 Confirming device recall on the mobile phone



Figure 5.14 Processing device recall on the mobile phone

Click **OK**. The system starts to recall the device, as shown in Figure 5.14. Later, a prompt is displayed, as shown in Figure 5.15.



Figure 5.15 Prompt for enabling the Bluetooth

Press the forcible communication button. Then, click **OK**, as shown in Figure 5-15. Related information is displayed on both the mobile phone and Web management platform after the device is recalled successfully. The system displays a confirming dialog box on the mobile phone, as shown in Figure 5.16. The system displays a prompt on the Web terminal, as shown in Figure 5.17.

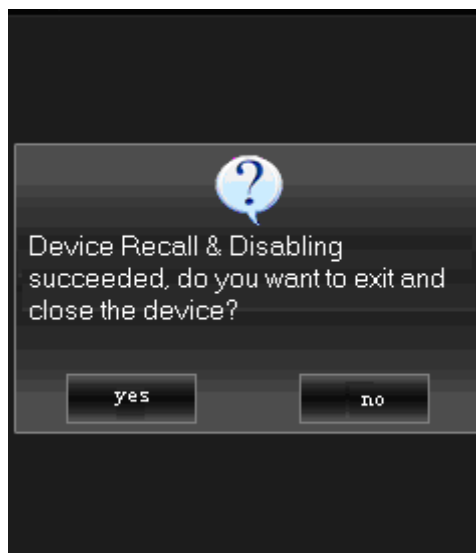


Figure 5.16 Confirming information on the mobile phone



Figure 5.17 The prompt on the Web terminal

Click **Yes** (in Figure 5.16) to quit the system and disable the device. Click **No** to return to the function menu.

6 Functions on Mobile Phone

6.1 Software Interfaces

There are five sections on the main interface: reminding, records, water input, and functions, and menu, as shown in Figure 6.1.

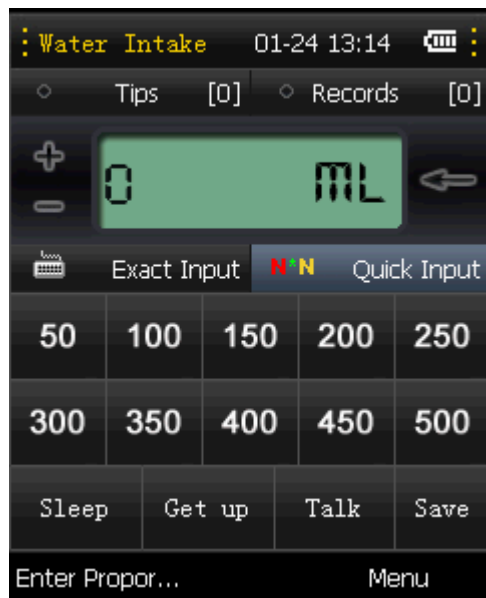


Figure 6-1 Main interface of the system

Reminding and Records store the reminders and water intake/urination records of one day respectively. In the water input section, precise input and fast input are available. In the

function section, you can enter the sleep/get-up time, complaint, and save water intake. The following describes each key shown in Figure 6-1.

- Reminding: Click it to view records about reminders, prompts, and so on.
- Records: Click it to view the urinary and fluid intake information on a day.
- Sleep: Before sleep, a patient can click the button to record the sleep time.
- Get up: After get-up, a patient can click the button to record the get-up time.
- Complain: A patient can click the button to inform a doctor of current conditions.
- Save: After entering water intake, a patient can click the button to save it.
- Menu: Click **Menu** in the water intake interface. Seven items are displayed: **Enter urine volume**, **Questionnaire**, **Function Menu**, **Recall and Disable**, **View configuration**, **Exit**, and **About...**, as shown in Figure 6.2.

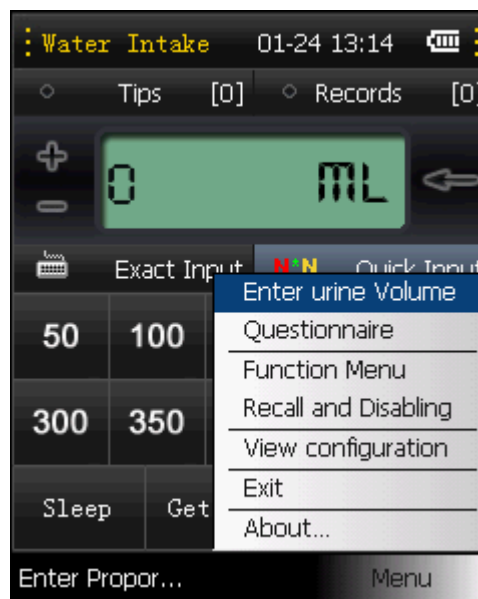


Figure 6-2 Menu

6.2 Function Menu

Choose **Menu > Function menu**. The login interface for medical care personnel is displayed, as shown in Figure 6-3. After login, some items are displayed, as shown in Figure 6-4.

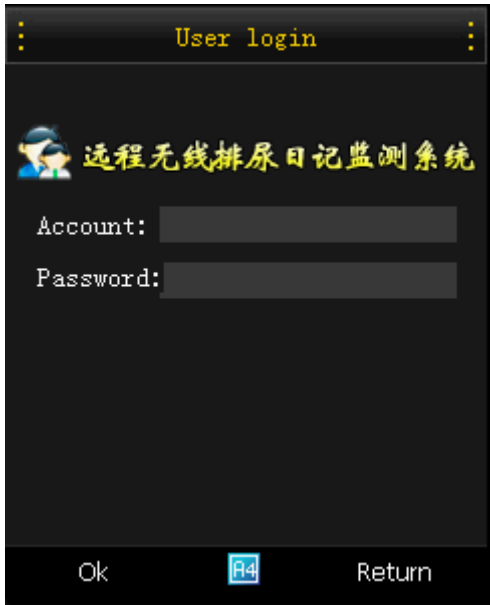


Figure 6-3 Login interface

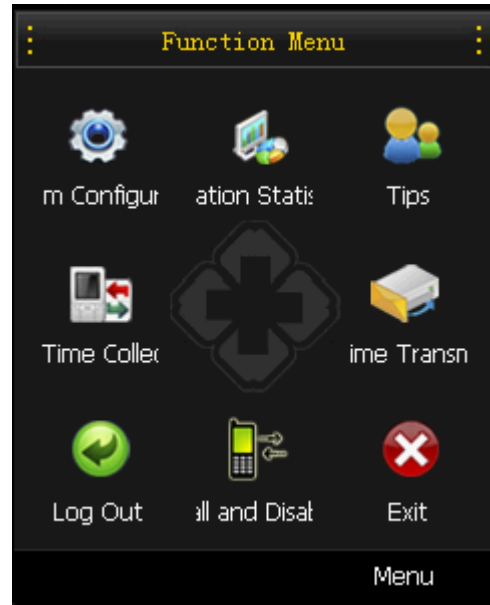


Figure 6-4 Function menu interface

6.2.1 Configuration

Choose **Menu** -> **Configuration**. The **Configuration** interface is displayed, as shown in Figure 6.5. The interface displays information about parameter settings, such as hospital name, medical staff name, patient name, communication interval. If the server address is changed, set **Web add** accordingly.

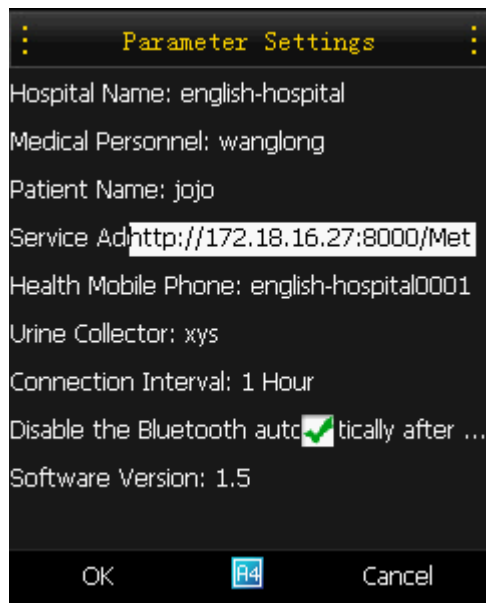


Figure 6-5 Parameter settings

6.2.2 Urine Statistics

You can search history urinary diary and urine statistics by selecting time, as shown in Figures 6.6 and 6.7.

Type	Time	Intake	Urine
Day	11:01	200.0ml	--
Day	11:02	--	461.7ml
Day	11:02	--	76.2ml
Day	11:03	--	460.2ml
Day	11:04	--	5.8ml
Day	11:33	--	453.3ml
Day	11:33	--	4.5ml
Total	Count:6		Quantity:1461.7

Figure 6.-6 Urinary diary interface

Date	Day	Night	Proportion
2011-01-13	6	0	0%

Figure 6-7 Urine statistics interface

Some data lines in Figure 6.6 are marked with . Click such lines to view the uroflometry charts, as shown in Figure 6.8. The figure shows the uroflometry curve and urine volume curve for certain urination. The X coordinate represents urination time (S). The length of time cell is fixed. The length varies with the urination duration. The left Y coordinate represents uroflometry ranging from 0 to 50 mL/s. The right Y coordinate represents urine volume ranging from 0 to 600 mL. Click any point of the curve to view details.

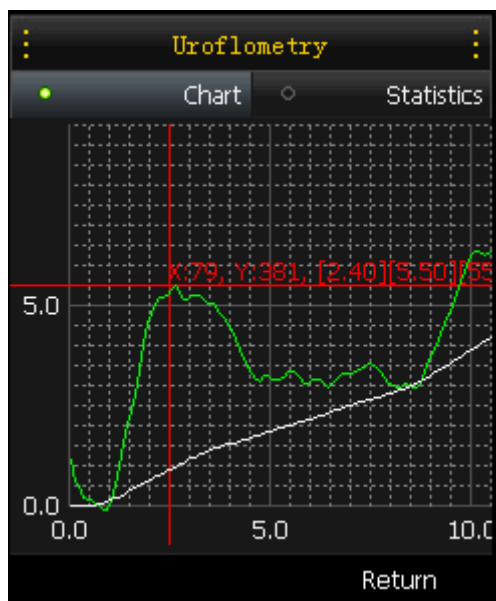


Figure 6-8 Uroflometry chart interface

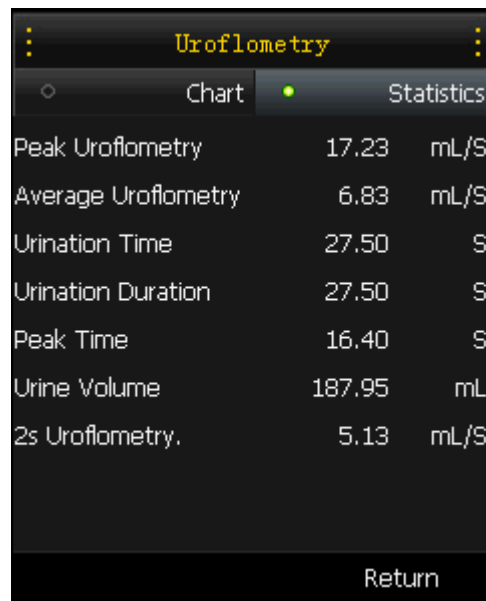


Figure 6-9 Uroflometry statistics

Click **Statistics** in the uroflometry chart interface. The system displays the statistics about uroflometry and urine volume, as shown in Figure 6.9. The statistics includes urination time, mean uroflometry, max. uroflometry, 2s uroflometry, 90% mean uroflometry, 90% time, uroflometry peak time, and total urine volume.

6.2.3 Reminding

The reminding interface displays the doctor advice and appointment prompts. In the water intake interface (as shown in Figure 6-10), click **Tips** to access to the viewing reminder interface. See Figure 6-11.

The reminders of the current month are displayed by default. You can click **Last month** or **Next month** to view other reminders.



Figure 6-10 Water intake interface

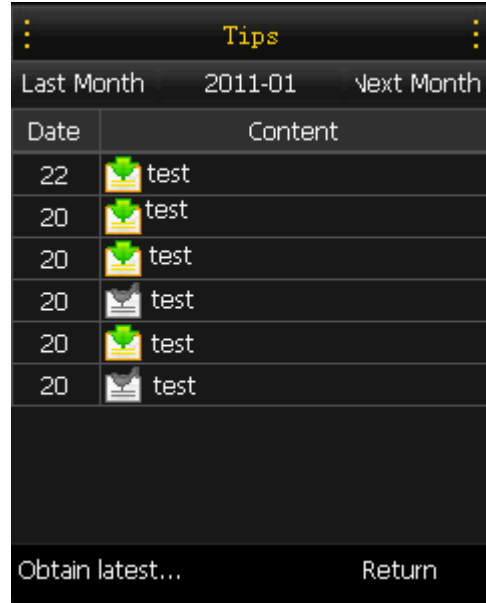


Figure 6-11 Reminder viewing interface

6.2.4 Collecting

To view history water intake/urination records on the mobile phone, the medical personnel can click **Collect** to upload data in the collector to the system. After data is received, click **Urinary stat.** to view the patient's history water intake/urination records. The following figure shows the data transmission process.

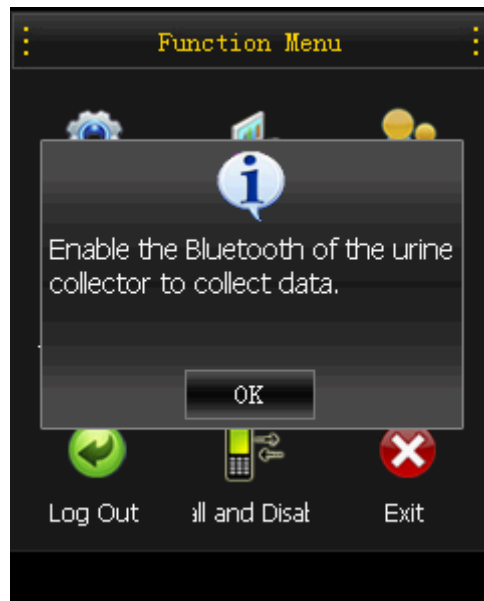


Figure 6-12 Prompt for enabling the Bluetooth



Figure 6-13 Data collecting interface

6.2.5 Sending

To view history water intake/urination records on the Web terminal, click **Collect**, and then click **Send** on the mobile phone to upload data. After the data is uploaded, the medical personnel can view the patient's history water intake/urination records on the Web terminal. The following figure shows the transmission process.

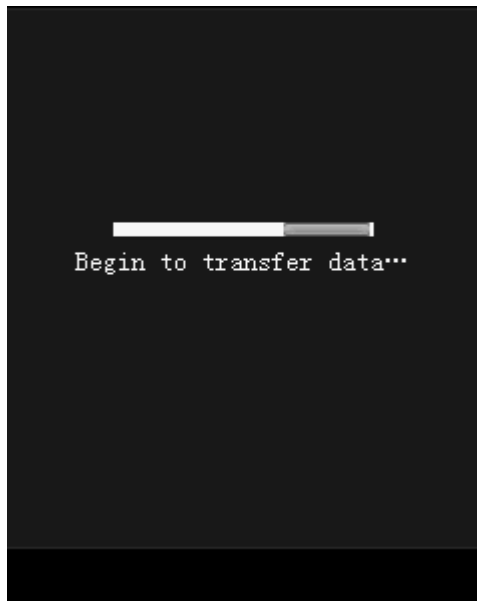


Figure 6-13 Data transmitting interface

6.2.6 Logging Out

After all operations, click **Log out** to log out of the system and prevent unauthorized operations.

6.2.7 Exiting Software

Click **Exit** to quit the mobile phone program.

6.2.8 Regularly Collecting and Uploading

The system can do the following based on fixed intervals:

Communicate with the urine collector and collect data;

Upload the data, such as urination, water intake, complaints, to the Web terminal.

For how to set communication interval, see 5.1.

6.3 Recall

The function is similar to that of device. For details, see 5.2.

6.4 Viewing Configuration

Choose **Menu** -> **View configuration**. Related parameter settings are displayed, as shown in Figure 6-15.

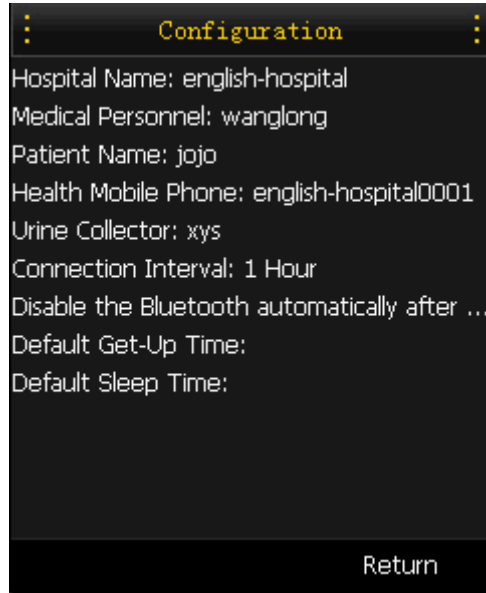


Figure 6-15 Parameter setting interface

6.5 About METS_MOBILE

Choose **Menu** -> **About...** Related information about the version is displayed, as shown in Figure 6-16.



Figure 6-16 Information about the version

7 Center Server

Welcome to Remote & Mobile Urinary Diary Monitoring System. Enter the server address (for example, <http://szxys-mets.xicp.net:2000/UserLogin.aspx>) in the address bar of **Internet Explorer** to access the homepage, as shown in Figure 7.1.

7.1 System Login

If you have not logged in to the system, the page will be redirected to <http://domain name/UserLogin.aspx>. For details about the login interface, see Figure 7.1.



Figure 7.1 Login interface

There are two methods to log in to the system: login by account and login by fingerprint.

Note: Fingerprint Management is optional in the system. When there is no fingerprint record, log in to the system by entering account and password.

Login by account: Enter the correct account and password. Then, click **Login**.

Login by fingerprint: Click **Fingerprint**. The system displays the fingerprint verification interface, as shown in Figure 7.2.



Figure 7.2 Fingerprint verification

After successful login, the system displays the homepage, as shown in Figure 7.3. The menus in the operation interface include **User**, **Patient**, **Device**, and **Medicine**.

Keyword: Usage Status:

Patient Code	Patient Name	Gender	Age	Register Date	Usage Status	Report	Edit	Add Cure
201012270001	test	Male	22	2010-12-27	In use	None		
201012240001	joke	Male	40	2010-12-24		Report		
201012200003	Michael	Male	69	2010-12-20		Report		
201012200002	David	Male	78	2010-12-20		None		
201012200001	Janes	Male	89	2010-12-20		None		
201012080023	Mary	Female	46	2010-12-08		Report		

Total 6 Current 1/1 Homepage Previous 1 Next Last 1

Figure 7.3 Operation interface

7.2 Logout

To protect your privacy, click **Exit** on the upper right to quit the system and back to the login interface.

7.3 Common Operations

7.3.1 Sorting and Searching

Sorting and searching functions are available on all lists in the system. Click the header of a column to perform ascending or descending sort.

You can use the search function above a list. Enter related conditions and then click **Search**. The corresponding result is displayed in the list. To access the advanced search state, click **Advanced Search**. Then, enter related search conditions and click **Advanced Search** in the patient list interface, as shown in Figure 7.4. The exact search result is displayed. Search conditions are as follows: patient code, patient name, ID card No., gender, registration date.

Patient Code	<input type="text"/>	Patient Name	<input type="text"/>	Usage Status	All <input type="button" value="v"/>
Gender	All <input type="button" value="v"/>	Register Date	<input type="text"/> - <input type="text"/>	Primary Diagnose	<input type="text"/>
Symptom Description	<input type="text"/>	Remarks	<input type="text"/>		

Figure 7.4 Advanced search

8 User Management

Log in to the system. Click **User Mngt** in the basic personal information page to access the personal information interface, as shown in Figure 8.1.



The screenshot shows a web interface for 'Personal Information'. It features a table with the following data:

Personal Information			
User Name:	wl	Gender:	Male
Birthday:		Marriage Status:	Unknown
ID Number:		Account:	wl
Department:		Position:	
Role:		Register Date:	2010-12-08

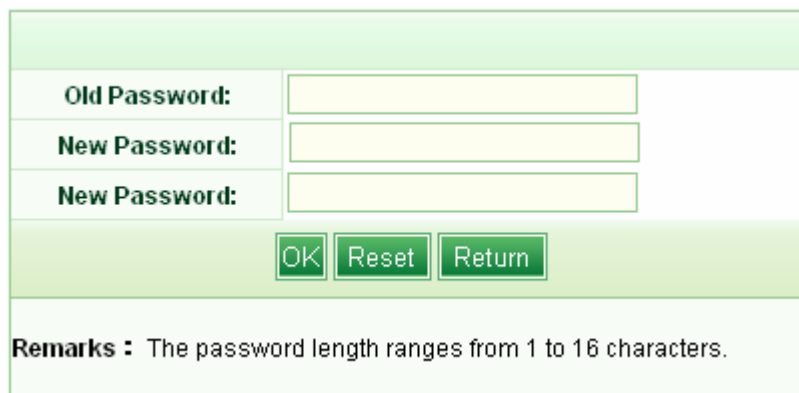
Below the table is a section for 'Detailed Information' with the following fields:

Home Address:			
Office Telephone:		Mobile:	
Home Telephone:		Email:	
Other Telephone :			

At the bottom of the interface is a green button labeled 'Change Password'. To the right of the main table is a placeholder for a profile picture with the text '暂无图片' (No image).

Figure 8.1 Basic personal information

Click **Change Password** to access the changing password interface, as shown in Figure 8.2. Enter new password and confirming password. Click **OK** to complete the operation. Click **Reset** to clear the entered information and enter new password again. Click **Return** to back to the **Personal Information** interface.




The screenshot shows the password change interface. It contains three input fields for 'Old Password', 'New Password', and 'New Password'. Below the fields are three buttons: 'OK', 'Reset', and 'Return'. At the bottom, there is a 'Remarks' section with the text: 'The password length ranges from 1 to 16 characters.'

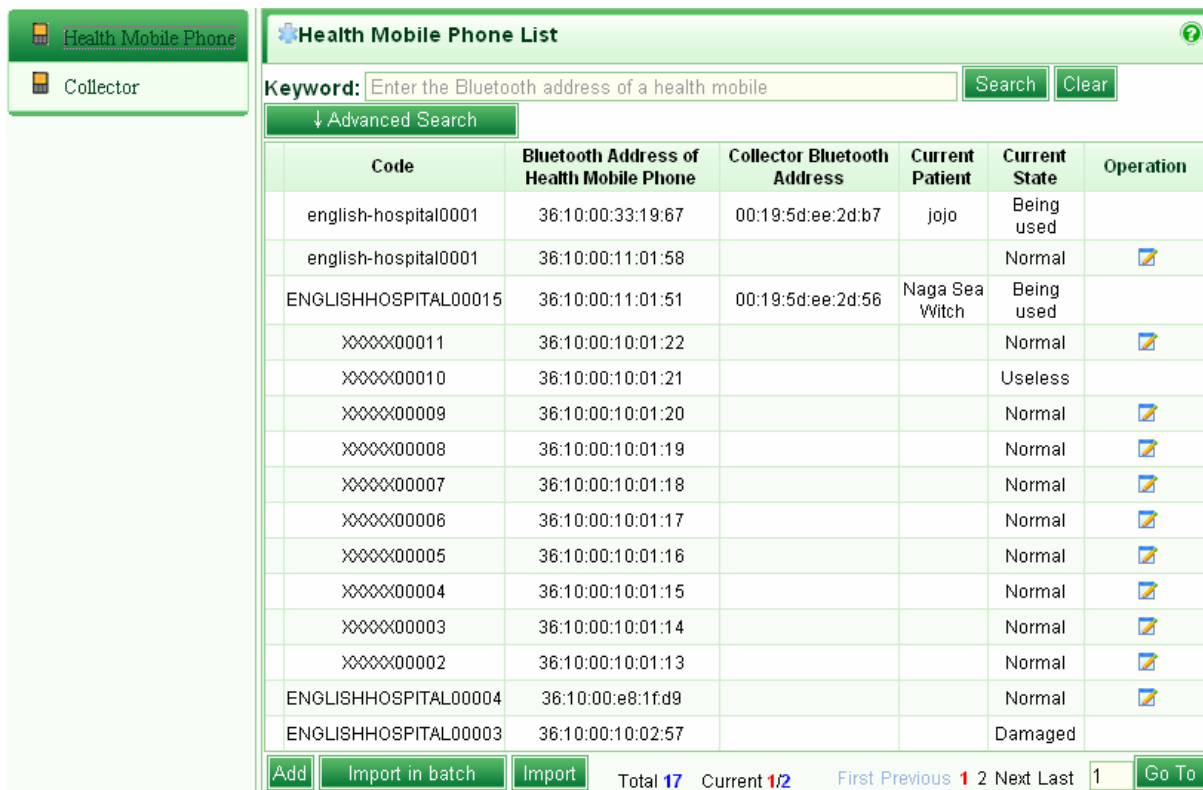
Figure 8.2 Changing password

9 Device Management

Device Management specifies the management of devices (such as health mobile phone and urine collector) used in the system, including device registration, device status change, viewing records of device usage and status change history.

Click  to access the device management interface. The initial page is

Health Mobile Phone List, as shown in Figure 9.1.















Code	Bluetooth Address of Health Mobile Phone	Collector Bluetooth Address	Current Patient	Current State	Operation
english-hospital0001	36:10:00:33:19:67	00:19:5d:ee:2d:b7	jojo	Being used	
english-hospital0001	36:10:00:11:01:58			Normal	
ENGLISHHOSPITAL00015	36:10:00:11:01:51	00:19:5d:ee:2d:56	Naga Sea Witch	Being used	
XXXXXXXX00011	36:10:00:10:01:22			Normal	
XXXXXXXX00010	36:10:00:10:01:21			Useless	
XXXXXXXX00009	36:10:00:10:01:20			Normal	
XXXXXXXX00008	36:10:00:10:01:19			Normal	
XXXXXXXX00007	36:10:00:10:01:18			Normal	
XXXXXXXX00006	36:10:00:10:01:17			Normal	
XXXXXXXX00005	36:10:00:10:01:16			Normal	
XXXXXXXX00004	36:10:00:10:01:15			Normal	
XXXXXXXX00003	36:10:00:10:01:14			Normal	
XXXXXXXX00002	36:10:00:10:01:13			Normal	
ENGLISHHOSPITAL00004	36:10:00:e8:1fd9			Normal	
ENGLISHHOSPITAL00003	36:10:00:10:02:57			Damaged	

Figure 9.1 Device management list

9.1 Health Mobile Management

9.1.1 Adding Data

Click  in the device management list, as shown in Figure 9.1. The system displays the **Add Health Mobile Phone** interface, as shown in Figure 9.2. Enter the Bluetooth device address of the health mobile. The health mobile writing system generates

a default health mobile code which is made up by the first letter of the hospital name plus SN. The code can be modified. Click **OK** to complete the operation.

Figure 9.2 Adding health mobile phone data

To enter huge amount of data, you can import the data in batches. Click **Import in batch**, as shown in Figure 9.1. On the displayed interface, download the template and import excel files. Then, click **OK** to complete data import, as shown in Figure 9.3.

Figure 9.3 Importing health mobile information in batch

9.1.2 Searching Device Information

To search device information, do as follows:
 Enter the Bluetooth device address of a health mobile phone and click **Search**; or
 Click **Advanced Search**. Enter the device No., Bluetooth address of the health mobile, device status, or current using personnel to search, as shown in Figure 9.4. The device status can be

normal, being used, damaged, lost, and discarded.

Health Mobile Phone List					
Keyword: <input type="text" value="Enter the Bluetooth address of a health mobile"/> <input type="button" value="Search"/> <input type="button" value="Clear"/>					
<input type="button" value="Advanced Search"/>					
Code	Bluetooth Address of Health Mobile Phone	Collector Bluetooth Address	Current Patient	Current State	Operation
english-hospital0001	36:10:00:33:19:67	00:19:5d:ee:2d:b7	jojo	Being used	
english-hospital0001	36:10:00:11:01:58			Normal	
ENGLISHHOSPITAL00015	36:10:00:11:01:51	00:19:5d:ee:2d:56	Naga Sea Witch	Being used	
XXXXX00011	36:10:00:10:01:22			Normal	
XXXXX00010	36:10:00:10:01:21			Useless	
XXXXX00009	36:10:00:10:01:20			Normal	
XXXXX00008	36:10:00:10:01:19			Normal	
XXXXX00007	36:10:00:10:01:18			Normal	
XXXXX00006	36:10:00:10:01:17			Normal	
XXXXX00005	36:10:00:10:01:16			Normal	
XXXXX00004	36:10:00:10:01:15			Normal	
XXXXX00003	36:10:00:10:01:14			Normal	
XXXXX00002	36:10:00:10:01:13			Normal	
ENGLISHHOSPITAL00004	36:10:00:e8:1f:d9			Normal	
ENGLISHHOSPITAL00003	36:10:00:10:02:57			Damaged	

Total 17 Current 1/2
First Previous 1 2 Next Last

Figure 9.4 Health mobile phone list

Click a message line. The system displays the detailed information interface, as shown in Figure 9.5. The interface shows the detailed information about the health mobile phone, usage history, and status change records. The **Usage History** list records the using personnel, release personnel, and use time. The **Status Change History** table records the status change time, original state, new state, and operator.

Device Information							
Device ID:	english-hospital0001	Device State:	Being used				
Health Mobile Phone Bluetooth Address:	36:10:00:33:19:67	Collector Bluetooth Address:	00:19:5d:ee:2d:b7				
Report the repair		Report the loss		Return			
Use History							
Use Sequence	Collector Code	Collector Bluetooth Address	Start Time	Patient Name	Distributor	End Time	Reccall Operator
1	xyx	00:19:5d:ee:2d:b7	2011-01-24 13:04:59	jojo	wanglong		
Total 1 Current 1/1		First Previous 1 Next Last			1		Go To
State Change History							
No Data-----							
Total 0 Current 1/1		First Previous 1 Next Last			1		Go To

Figure 9.5 Device details

The status of the Monitoring System can be normal, being used, damaged, lost, and discarded. The status change relationship is shown in Figure 9.6.

- Normal: The device is normal and not used currently. (Normal can be changed to Being Used, Damaged, Lost, or Discarded.)
- Being Used: The device is normal and being used. (The status can be changed after the device is recalled.)
- Damaged: The device is abnormal and need reporting for repair. (Damaged can be changed to Normal, Lost, or Discarded.)
- Lost: The device is lost and need reporting the loss. (Lost can be changed to Normal or Damaged.)
- Discarded: The device is discarded (Discarded can be changed to Damaged or Normal.)

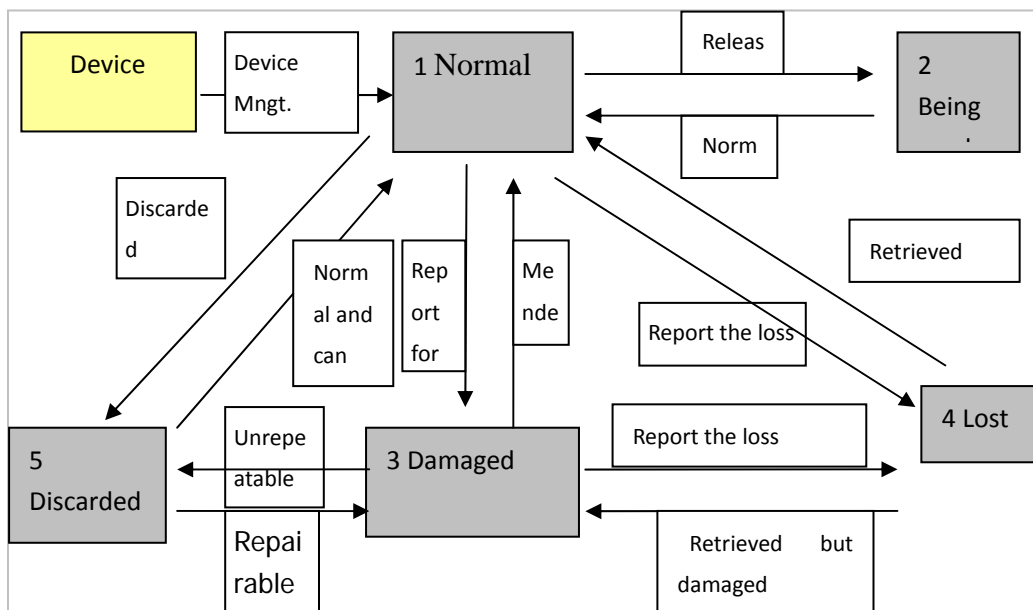


Figure 9.6 Device status change relationship

9.2 Collector Management

For device management of the collector, see section 9.1. The operating method is the same.

10 Medicine Management

Click **Medicine** on upper right of the homepage, as shown in Figure 7.2. The system displays the medicine type list, as shown in Figure 10.1. Paging, sorting, and searching are available on the page.



Medicine Type List

Keyword:

Medicine Type Name	Remarks	Parent Medicine Type	Operation
Other Drugs			
αAdrenoceptor Antagonists			
Antidepressants			
Drugs With Mixed Actions			
Antimuscarinic Drugs			

Total 5 Current 1/1 First Previous 1 Next Last 1

Figure 10-1 Medical type management

10.1 Medicine Classification

10.1.1 Adding Medicine Type

Click **Add** (as shown in Figure 10.1). The system displays the adding medicine type page (as shown in Figure 10.2).

Enter parent medicine type, medicine type name, and remarks. Click **OK** to save the operation.

Add Medicine Type	
Parent Medicine Type:	<input type="text"/>
Medicine Type Name:	<input type="text"/>
Remarks:	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Return"/>	

Figure 10.2 Adding a medicine type

- Parent Medicine Type: parent category of the medicine type to be added.
- Medicine type Name: name of the medicine type.
- Remarks: description about the medicine type.

Note: If there is no parent medicine type, **Parent Medicine Type** is null.

10.1.2 Viewing and Editing Medicine Type

Click a medicine type in the medicine type list. The system displays the editing medicine type interface, as shown in Figure 10.3. Enter related information and then click **OK** to save the operation.

Edit Medicine Type	
Parent Medicine Type:	<input type="text"/>
Medicine Type Name:	<input type="text" value="Other Drugs"/>
Remarks:	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Return"/>	

Figure 10.3 Viewing and editing a medicine type

After adding a medicine type, you can modify only the parent medicine type and remarks. Medicine type name cannot be changed.

10.2 Medicine Information

10.2.1 Adding New Medicine Information

Click **Medicine Information** to display the medicine information list, as shown in Figure 10.4. Click **Add** to display the adding medicine information interface, as shown in Figure 10.5.

Medicine Name	Medicine Unit	Medicine Type	Medicine Introduction	Edit
Resiniferatoxin		Antimuscarinic Drugs		
Capsaicin		Other Drugs		
Tamsulosin		α Adrenoceptor Antagonists		
Alfuzosin		α Adrenoceptor Antagonists		
Imipramine		Antidepressants		
Oxybutynin		Drugs With Mixed Actions		
Solifenacin		Antimuscarinic Drugs		

Add Export As Excel Total 7 Current 1/1 First Previous 1 Next Last 1 Go To

Figure 10.4 Medicine information list

Add Medicine Information

Medicine Type:

Medicine Name:

Medicine Unit:

Remarks:

Figure 10.5 Adding new medicine information

➤ Medicine Type: type that the medicine belongs to.

- **Medicine Name:** name of a medicine.
- **Dosage:** amount of the medicine used
- **Remarks:** descriptions about the medicine.

Note: the medicine dosage is defined by a user. The existing dosage unit is displayed in the drop-down list.

- **OK and Continue:** The system saves the added medicine information and stays on the **Adding Medicine Information** interface. In this case, you can go on to add another medicine.

10.2.2 Viewing and Editing Medicine Information

Click a medicine in the medicine list. The system displays the editing medicine information interface, as shown in Figure 10.6. Enter related information and then click **OK** to save the operation.

Edit Medicine Information	
Medicine Type:	Antimuscarinic Drugs
Medicine Name:	Resiniferatoxin
Medicine Unit:	
Medicine Introduction:	

Figure 10.6 Editing medicine information

10.3 Medication Solution

10.3.1 Adding Medication Solution

Click **Medication Solution** to display the medication solution list, as shown in Figure 10.7. Click **Add** to display the adding medication solution interface, as shown in Figure 10.5.

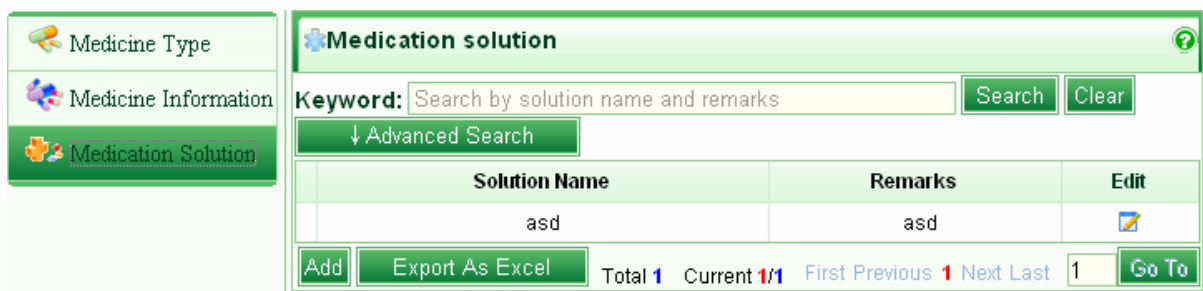


Figure 10-7 Medication solution list

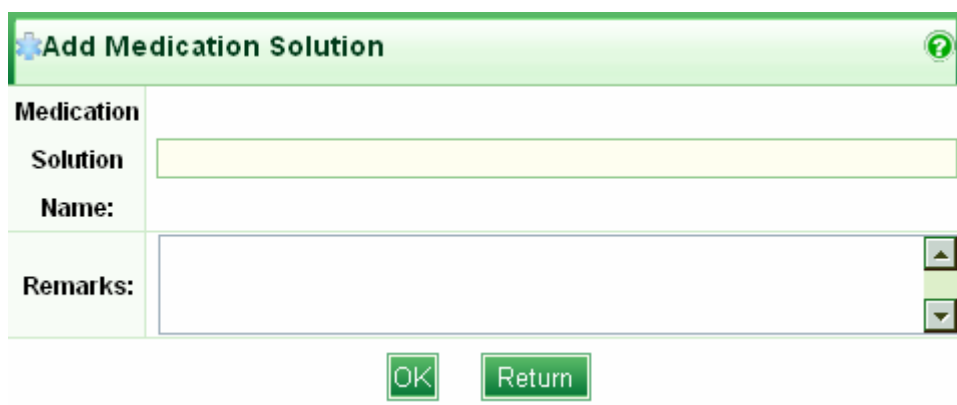


Figure 10.8 Adding a medication solution

- Medication Solution Name: Name of a medication solution.
- Remarks: Descriptions about the medication solution, including indications, medicine, and so on.

10.3.2 Viewing and Editing Medication Solution

Click a medication solution in the medication solution list. The system displays the editing medication solution interface, as shown in Figure 10-9.



Figure 10.9 Editing medication solution information

Click **Add New Medicine**. The system displays the medicine selection list, as shown in Figure 10.10.


Medicine List			
Medicine Solution Name	asd		
Select Medicine Type	<input type="text"/>	Medicine Type Name	<input type="text"/>
		Remarks	<input type="text"/>
<input type="button" value="Search"/> <input type="button" value="Clear"/>			
<input type="checkbox"/>	Medicine Name	Medicine Type	Medicine Introduction
<input type="checkbox"/>	Resiniferatoxin	Antimuscarinic Drugs	
<input type="checkbox"/>	Capsaicin	Other Drugs	
<input type="checkbox"/>	Tamsulosin	α Adrenoceptor Antagonists	
<input type="checkbox"/>	Alfuzosin	α Adrenoceptor Antagonists	
<input type="checkbox"/>	Imipramine	Antidepressants	
<input type="checkbox"/>	Oxybutynin	Drugs With Mixed Actions	
<input type="checkbox"/>	Solifenacin	Antimuscarinic Drugs	
<input type="button" value="Select All"/> <input type="button" value="Select Inverse"/> <input type="button" value="Add to Solution"/> <input type="button" value="Back"/> Total 7 Current 1/1 First Previous 1 Next Last 1 <input type="button" value="Go To"/>			

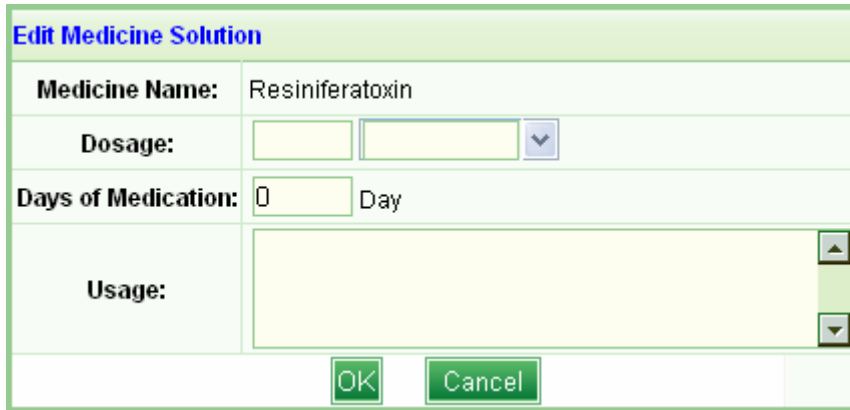
Figure 10.10 Adding new medication for a medication solution

Select the medicine to be added to the solution. Click **Add to Solution**. After adding is successful, the system returns to the medication solution interface, as shown in Figure 10.11. The added medicine is displayed in the list.

Used Medication Solution					
Medicine Solution Name	asd		Remarks:	asd	
Name:					
Medication in Solution					
Medicine Name	Days of Medication:	Dosage	Usage	Edit	Delete
Resiniferatoxin	0				
Capsaicin	0				
<input type="button" value="Add New Medicine"/> <input type="button" value="OK"/> <input type="button" value="Back"/>					

Figure 10.11 Medication solution interface with added medicine

Click . The system displays the editing medication solution interface, as shown in Figure 10.12.



Edit Medicine Solution	
Medicine Name:	Resiniferatoxin
Dosage:	<input type="text"/> <input type="text"/> ▼
Days of Medication:	<input type="text"/> Day
Usage:	<div style="border: 1px solid black; height: 40px; width: 100%;"></div>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

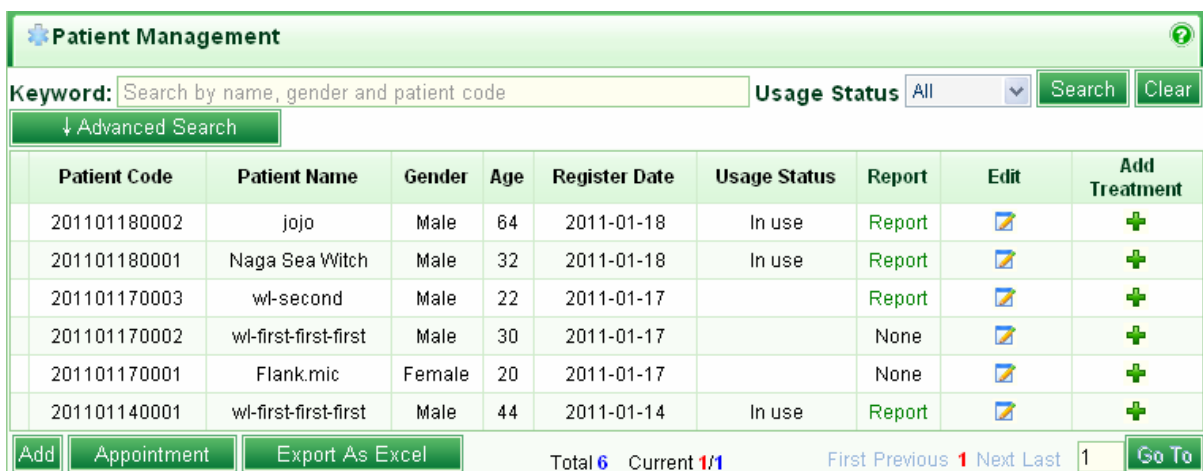
Figure 10.12 Editing medication solution information

Enter the dosage, course, and usage. Then, click **OK**. The system returns to the medication solution interface, as shown in Figure 10.11.

11 Patient Management

Patient Management specifies the management and maintenance of the basic patient information (such as name, gender) and medical record.

Click **Patient Mngt.** to access the patient management interface. The initial page shows the basic patient information list, as shown in Figure 11.1. By default, the system displays 15 patient records that are newly added, including Patient No., name, gender, age, registration date, device status, report, editing button, and adding cure button.



The screenshot shows the 'Patient Management' interface. At the top, there is a search bar with the text 'Search by name, gender and patient code' and a 'Usage Status' dropdown menu set to 'All'. Below the search bar is an 'Advanced Search' button. The main area contains a table with the following columns: Patient Code, Patient Name, Gender, Age, Register Date, Usage Status, Report, Edit, and Add Treatment. The table lists six patient records. At the bottom of the interface, there are buttons for 'Add', 'Appointment', and 'Export As Excel', along with a status bar showing 'Total 6 Current 1/1' and a 'Go To' button.


















Patient Code	Patient Name	Gender	Age	Register Date	Usage Status	Report	Edit	Add Treatment
201101180002	jojo	Male	64	2011-01-18	In use	Report		
201101180001	Naga Sea Witch	Male	32	2011-01-18	In use	Report		
201101170003	wl-second	Male	22	2011-01-17		Report		
201101170002	wl-first-first-first	Male	30	2011-01-17		None		
201101170001	Flank.mic	Female	20	2011-01-17		None		
201101140001	wl-first-first-first	Male	44	2011-01-14	In use	Report		

Figure 11.1 Basic patient information list

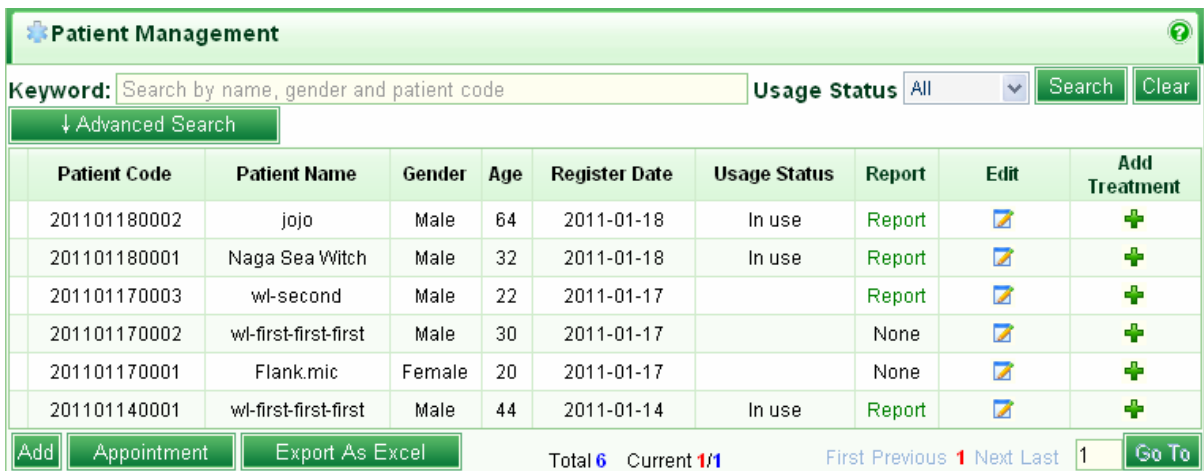
- Search: Search specified patients by **Search** or **Advance Search**.
- Add: click  to add new basic patient information.
- Appointment: Click  to view all your appointment information.
- Export As Excel: Click  to export all basic patient information.
- Device status: State of the released device.
- Edit: Click  in a patient message line to access the editing basic information interface.
- Add Treatment: Click  in a patient message line to access the adding cure interface.

For details, refer to 11.1.1.

- Viewing report: Click **Report** in the **Report** column to access the urinary diary summary interface. For details, refer to 0.

11.1 Managing Patient Medical Record

Click a message line in the basic patient information list to access the patient medical record interface, as shown in Figure 11.3.



The screenshot displays the 'Patient Management' interface. At the top, there is a search bar with the text 'Keyword: Search by name, gender and patient code' and a 'Usage Status' dropdown menu set to 'All'. Below the search bar is an 'Advanced Search' button. The main part of the interface is a table with the following columns: Patient Code, Patient Name, Gender, Age, Register Date, Usage Status, Report, Edit, and Add Treatment. The table contains six rows of patient data. At the bottom of the interface, there are buttons for 'Add', 'Appointment', and 'Export As Excel', along with pagination information: 'Total 6 Current 1/1 First Previous 1 Next Last 1 Go To'.

Patient Code	Patient Name	Gender	Age	Register Date	Usage Status	Report	Edit	Add Treatment
201101180002	jojo	Male	64	2011-01-18	In use	Report		
201101180001	Naga Sea Witch	Male	32	2011-01-18	In use	Report		
201101170003	wl-second	Male	22	2011-01-17		Report		
201101170002	wl-first-first-first	Male	30	2011-01-17		None		
201101170001	Flank.mic	Female	20	2011-01-17		None		
201101140001	wl-first-first-first	Male	44	2011-01-14	In use	Report		

Figure 11.2 Basic patient information list

Medical Record					
Basic Patient Information					
Name:	jojo	Gender:	Male	Age:	64
Patient ID:	114	Patient Code:	201101180002	Mobile:	
<input type="button" value="Add Treatment"/> <input type="button" value="Treatment Report"/> <input type="button" value="Doctor Advice"/> <input type="button" value="Complaint"/> <input type="button" value="Questionnaire"/> <input type="button" value="Patient Basic Info"/> <input type="button" value="Back"/>					
Device					
Health Mobile Bluetooth Address	36:10:00:33:19:67	Collector Bluetooth Address	00:19:5d:ee:2d:b7	<input type="button" value="Recall Device"/>	
Patient Treatment Information					
Treatment Date	Symptom	Remarks	Doctor	Edit	
2011-01-21	dfg		zhuyun		
2011-01-20	abdc	abdc	xzg		
2011-01-20	ddd	ddd	xzg		
2011-01-20	f	f	xzg		
2011-01-20	f	f	xzg		
2011-01-20	d	d	xzg		
2011-01-20	d	d	xzg		
2011-01-20	fff	fff	xzg		
Total 15 Current 1/2 First Previous 1 2 Next Last 1 <input type="button" value="Go To"/>					

Figure 11.3 Patient medical record list

The **Medical Record** interface consists of the following parts:

- 1) **Basic Patient information** specifies the patient identity.
- 2) Common functional operations on the patient, such as adding new treatment, viewing history treatment report, viewing & adding reminders, viewing complaint records, and viewing & adding basic patient information.


S/N	Name	Description
1	Add Treatment	Click the button to add new treatment information
2	Treatment Report	Click the button to view history treatment reports.
3	Reminder	Click the button to view and add reminders.
4	Complaint	Click the button to view complaint records.

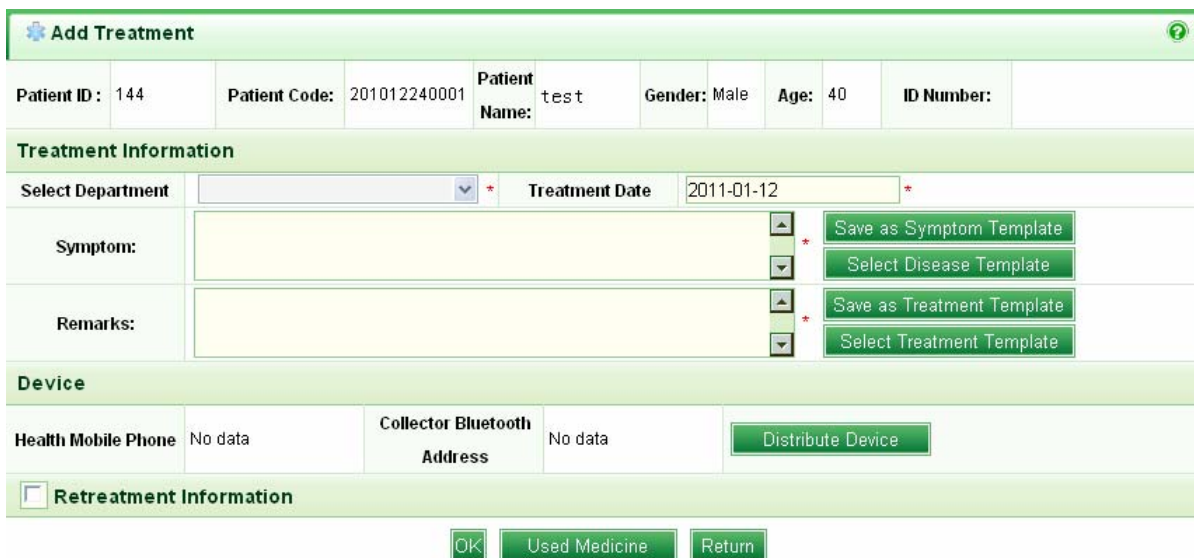
5	Questionnaire	Click the button to view and add questionnaires.
6	Basic Patient Information	Click the button to view the basic patient information.
7	Back	Click the button to back to the patient information list.

3) Information about the monitoring devices: This table is displayed in the medical record lists of patients with treatment records.

4) Patient Treatment Information: The treatment information list is sorted in descending date order.

11.1.1 Adding Treatment

Click  to access the **Add Treatment** interface, as shown in Figure 11.4. The new treatment information contains patient conditions, treatment remarks, device release, device recall, appointment, and medication management.



The screenshot shows the 'Add Treatment' interface with the following fields and sections:

- Header:** Add Treatment (with a help icon)
- Patient Information:** Patient ID: 144, Patient Code: 201012240001, Patient Name: test, Gender: Male, Age: 40, ID Number: (empty)
- Treatment Information:**
 - Select Department: (dropdown menu)
 - Treatment Date: 2011-01-12
 - Symptom: (text area) with buttons: Save as Symptom Template, Select Disease Template
 - Remarks: (text area) with buttons: Save as Treatment Template, Select Treatment Template
- Device:**
 - Health Mobile Phone: No data
 - Collector Bluetooth Address: No data
 - Distribute Device: (button)
- Retreatment Information:** (checkbox)
- Footer:** OK, Used Medicine, Return (buttons)

Figure 11.4 Adding new treatment information

11.1.1.1 Patient Conditions & Treatment Remarks

Enter the register department, treatment date, and patient conditions, and treatment remarks. Release the monitoring devices and medicine when necessary.

To make it convenient to describe patient conditions and treatment remarks, the system provides the following functions:



Click **Save as Symptom Template** to add the current patient conditions to the patient condition template;



and Click **Save as Treatment Template** to add the current treatment remarks to the treatment remark template, as shown in Figure 11.5. ?



Figure 11.5

You can also click **选择病情描述模板** to access the patient condition template interface. Click  in a message line to view and edit the template content, as shown in Figure 11.6. Click  in a message line to select the current template and back to the medical record interface, as shown in Figure 11.3.

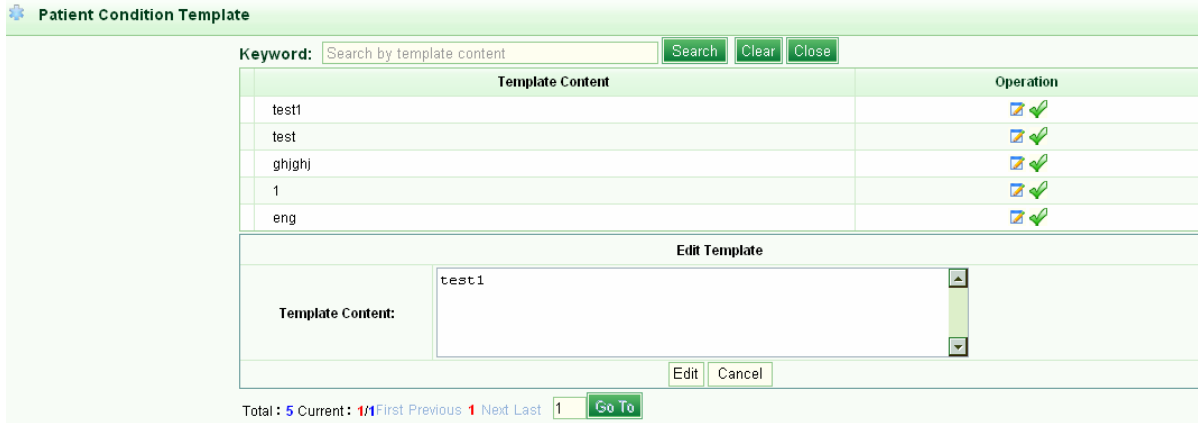


Figure 11.6 Managing Patient condition template

For operations on the treatment remark template, refer to those on the patient condition template.

11.1.1.2 Medication



Click  to access the medication information list, as shown in Figure 11.7.



Figure 11.7 Medication information list

Click  to add the current medication information to the medication solution. You can also select the medication solution saved before to generate the current

medication information page.

If the current medication information is insufficient for treatment needs, click

Select Medicine

11.8.

The screenshot shows a web interface titled "Medicine List". At the top, there are two dropdown menus: "Medicine Solution" and "Medicine Type". To the right, there are input fields for "Medicine Type Name" and "Remarks", along with "Search" and "Clear" buttons. Below this is a table with the following columns: "Medicine Name", "Medicine Type", and "Medicine Introduction". The table contains seven rows of data. At the bottom of the interface, there are buttons for "Select All", "Select Inverse", "Select", and "Return". On the right side of the bottom bar, it displays "Total 7 Current 1/1" and navigation links: "Homepage", "Previous", "Next", "Last", and "Go To".

<input type="checkbox"/>	Medicine Name	Medicine Type	Medicine Introduction
<input type="checkbox"/>	Resiniferatoxin	Antimuscarinic Drugs	
<input type="checkbox"/>	Capsaicin	Other Drugs	
<input type="checkbox"/>	Tamsulosin	α Adrenoceptor Antagonists	
<input type="checkbox"/>	Alfuzosin	α Adrenoceptor Antagonists	
<input type="checkbox"/>	Imipramine	Antidepressants	
<input type="checkbox"/>	Oxybutynin	Drugs With Mixed Actions	
<input type="checkbox"/>	Solifenacin	Antimuscarinic Drugs	

Figure 11.8 Medicine selection list

Select the medicine to be used. Click **Select** to add the medicine to the medication information list.

After that, click **Return** to back to the medication interface. Click **OK** to complete the medication information.

11.1.1.3 Revisit Appointment

When adding or editing treatment information, you can select **Revisit Appointment** to add appointments, as shown in Figure 11.9.

Edit Treatment

Patient ID: 114 Patient Code: 201101180002 Patient Name: jojo Gender: Male Age: 64 ID Number:

Treatment Information

Select Department: miwai * Treatment Date: 2011-01-25 *

Symptom: test1 * Save as Symptom Template Select Disease Template

Remarks: test * Save as Treatment Template Select Treatment Template

Device

Health Mobile Phone: 36:10:00:33:19:67 Collector Bluetooth Address: 00:19:5d:ee:2d:b7 Recall Device

Consequent Visit Appointment

Retreatment Content: Retreatment Time: *

OK Used Medicine Doctor Advice Back

Figure 11.9 Editing patient treatment information

When logging in to the system three days before the appointment time of revisit, you can see a reminder in the lower right of the basic patient information list, as shown in Figure 11.10.

Patient Management

Keyword: Search by name, gender and patient code Usage Status: All Search Clear

↓ Advanced Search

Patient Code	Patient Name	Gender	Age	Register Date	Usage Status	Report	Edit	Add Treatment
201101180002	jojo	Male	64	2011-01-18	In use	Report		+
201101180001	Naga Sea Witch	Male	32	2011-01-18	In use	Report		+
201101170003	wl-second	Male	22	2011-01-17		Report		+
201101170002	wl-first-first-first	Male	30	2011-01-17		None		+
201101170001	Flank.mic	Female	20	2011-01-17		None		+
201101140001	wl-first-first-first	Male	44	2011-01-14	In use			

In use: Tip, will close in one minute

you had 1 information below

Content	Patient	Date
appointment	wl-first-first-first	2011-01-22

Add Appointment Export As Excel Total 6 Current 1/1

Figure 11.10 Revisit appointment information


To view more revisit appointments, choose **Patient Management** -> **Basic Patient**

Information List -> Appointment. The system displays the revisit appointment interface, as shown in Figure 11.11.

Patient Name	Appointment Content	Doctor Name	Record Time	Revisit Time	Current Status	Operation
jojo	test	xzg	1/20/2011	1/31/2011	Normal	
jojo	test	xzg	1/20/2011	dddd, MMMM	Normal	


Figure 11.11 Viewing revisit appointments


11.1.1.4 Device Distribution

For patients that are not released with devices, click  when adding or editing medication information. Device release must be operated on the Web terminal and the health mobile phone. For details, see 5.1.


11.1.1.5 Device Recall

To recall released devices after the treatment is completed, do as follows:

Click  in the patient medical record list; or


Click  in the latest treatment information page. Device recall is similar to device release. For details, see 5.2.


11.1.2 Treatment Report

In the patient medical record list, click  to access the detailed treatment report containing urinary diary summary, uroflometry, and urinary diary. **For details, see 12.**

11.1.3 Reminder

To view or edit reminders (as shown in Figure 11.12), do as follows:

1. Click  in the medical record information list

2. Click  in the page of viewing medical record

information.

Send Time	Doctor Name	Advice Content	Download Time	Operation
2011-01-20 16:19:12	zhuyun	test	2011-01-24 15:37:34	

Figure 11.12 Reminder information

Click a reminder in the reminder list. The system displays the interface of viewing the reminder details.

Click **Add** to access the adding reminder page, as shown in Figure 11.13. Enter related information, and then click **OK**. The reminder is saved in the database and can be received by the patient through a health mobile phone.


Doctor Name: wanglong

Patient Name: jojo

Content:

Figure 11.13 Adding a reminder

11.1.4 Complaint

Click  in the medical record information list. The system displays the

complaint record interface, as shown in Figure 11.14.




Complaint List							
Name:	jojo	Gender: Male	Age: 64	Patient ID: 114	Patient Code: 201101180002	ID Number:	
Complaints							
Record Time	Complaint Content	Read Time	Operation				
2011-01-24 15:37:53	11		▶▶				
2011-01-18 13:36:51	fggtyh	2011-01-21 16:50:38	▶▶				
Export As Excel Back		Total 2 Current 1/1 First Previous 1 Next Last 1 Go To					

Figure 11.14 Complaint list

Click a message line in the patient complaint list to access the page of viewing the complaint details. You can directly send a reminder to the patient in the interface.

Complaint Detail	
Patient Name:	jojo
Record Time:	2011-01-24 15:37:53
Complaint Content:	11
<input type="button" value="Send"/> <input type="button" value="Back"/>	

Figure 11-15 Complaint details

After the patient submits a complaint from the mobile phone, the doctor can view the complaint by clicking  in the homepage. After the system receives a complaint, the  icon flashes. Click  to view unread complaints, as shown in Figure 11.16.

Unread Complaint List		
Patient Name	Complaint Content	Record Time
ANN	w	1/13/2011 1:08:22 PM

Total 1 Current 1/1 [Homepage](#) [Previous](#) 1 [Next](#) [Last](#) [Go To](#)

Figure 11.16 Viewing unread complaints

11.1.5 Questionnaire

In the medical record information list, click [Questionnaire](#) to access the questionnaire page, as shown in Figure 11.17.


Questionnaire Survey							
Name:	ANN	Gender:	Female	Age:	35	Patient ID:	146
Patient Code:	201101130001	ID Number:					
Keyword:	Search by questionnaire title and creator			Search	Clear	Advanced Search	
Questionnaire Title	Questionnaire Creator	Start Time	End Time	Score	Questionnaire Type	Questionnaire Status	Edit
IPSS		1/13/2011 10:55:11 AM	1/13/2011 11:29:52 AM	5	Mobile Phone Terminal	Completed	Edit
OABSS		1/13/2011 10:55:11 AM	1/13/2011 11:24:22 AM	1	Mobile Phone Terminal	Completed	Edit

[Add Questionnaire Survey](#) [Return](#) Total 2 Current 1/1 [Homepage](#) [Previous](#) 1 [Next](#) [Last](#) [Go To](#)

Figure 11.17 Questionnaire

The questionnaire list includes the questionnaire title, creator, start time, end time, score, type, and status. The system provides two questionnaires by default with the system administrator as the creator. Start Time: time when you save the questionnaire successfully. End Time: The time when the questionnaire is submitted. Score: marks that the patient gets after answering all questions in the questionnaire. Type: There are two questionnaire types: Web and Mobile. If you select a questionnaire and click **Save**, the questionnaire type is Web. If you select a questionnaire and click **Send to Mobile Phone**, the questionnaire type is Mobile. Status: Enabled, On-Going, Finished. After questionnaires are added successfully, all of them are in enabled state. The Mobile questionnaire is in **On-Going** state after being downloaded to the mobile phone, and is in **Finished** state after being submitted to the Web

server.

Click . The system displays the **Add Questionnaire** interface, as shown in Figure 11.18. Select related questionnaires, and then click **Save**. You can view related information about the added questionnaires in the questionnaire list.

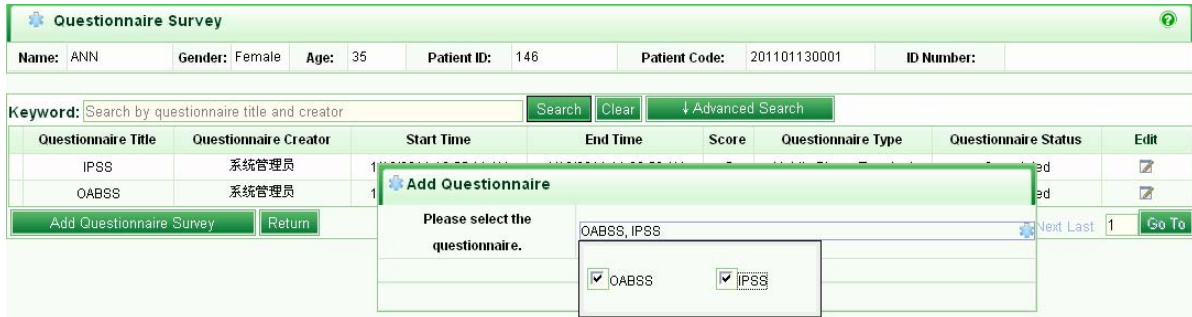


Figure 11.18 Adding questionnaires

Click a questionnaire in the questionnaire list. The system displays the answering interface, as shown in Figure 11.19. If the questionnaire type is Web, you can answer questions for the patient and the system calculates the score. If the questionnaire type is Mobile Phone, you can only view the answering result.

OABSS	
膀胱过度活动症评分问卷	
1. 白天排尿次数	
从早晨起床到晚上入睡的时间内小便的次数是多少？ (Single-Answer)	
<input type="radio"/> ≤7 (0分)	<input type="radio"/> 8-14 (1分)
<input type="radio"/> ≥15 (2分)	
2. 夜间排尿次数	
从晚上入睡到早晨起床的时间内，因为小便起床的次数是多少？ (Single-Answer)	
<input type="radio"/> 0 (0分)	<input type="radio"/> 1 (1分)
<input type="radio"/> 2 (2分)	
3. 尿急	
是否有突然想要小便，同时难以忍受的现象发生？ (Single-Answer)	
<input type="radio"/> 无 (0分)	<input type="radio"/> 每周<1 (1分)
<input type="radio"/> 每周≥1 (2分)	<input type="radio"/> 每日=1 (3分)
<input type="radio"/> 每日2-4 (4分)	<input type="radio"/> 每日≥5 (5分)
4. 急迫性尿失禁	
是否有突然想要小便，同时无法忍受并出现尿失禁的现象？ (Single-Answer)	
<input type="radio"/> 无 (0分)	<input type="radio"/> 每周<1 (1分)
<input type="radio"/> 每周≥1 (2分)	<input type="radio"/> 每日=1 (3分)
<input type="radio"/> 每日2-4 (4分)	<input type="radio"/> 每日≥5 (5分)
Score	<input type="text"/>
Score	得分≤5: 轻度OAB, 6≤得分≤11: 中度OAB, 得分≥12: 重度OAB
Reference	
<input type="button" value="Return"/>	

Figure 11.19 Answering interface

12 Treatment Report

Treatment Report analyzes data and is the core of the Monitoring System. A treatment report contains the urinary diary summary, urinary diary, and uroflometry report. The system displays the urinary diary summary interface after **Treatment Report** is clicked.

12.1 Urinary Diary Summary

Urinary Diary Summary displays the urination summary in certain period, as shown in Figure 12.1. The interface covers the basic patient information, statistics start time and end time, statistics information, parameter specification, statistical chart of urine volume, and statistical chart of urination times.

1. Daytime urine volume: Total daytime urine volume (- The first urine volume in 1 hour after get-up).
2. Daytime urination times: Total urination times calculated from the first urination after get-up to the last urination before sleep.
3. Night volume: Night volume (+ The first urine volume in 1 hour after get-up the next day)
4. Night times: Urination times calculated from one day (sleep time) to the next day (get-up time).
5. Max urine volume (mL): Maximum urination volume in a day (The first urine of one day after get-up is regarded as the nocturia of the previous day instead of the daytime urine of the day)

Note: When the parameter of daytime times or nocturia proportion exceeds certain value (Choose **System Configuration** -> **Parameter Configuration**, and then set the parameter), the related information is highlighted in the urinary diary summary.

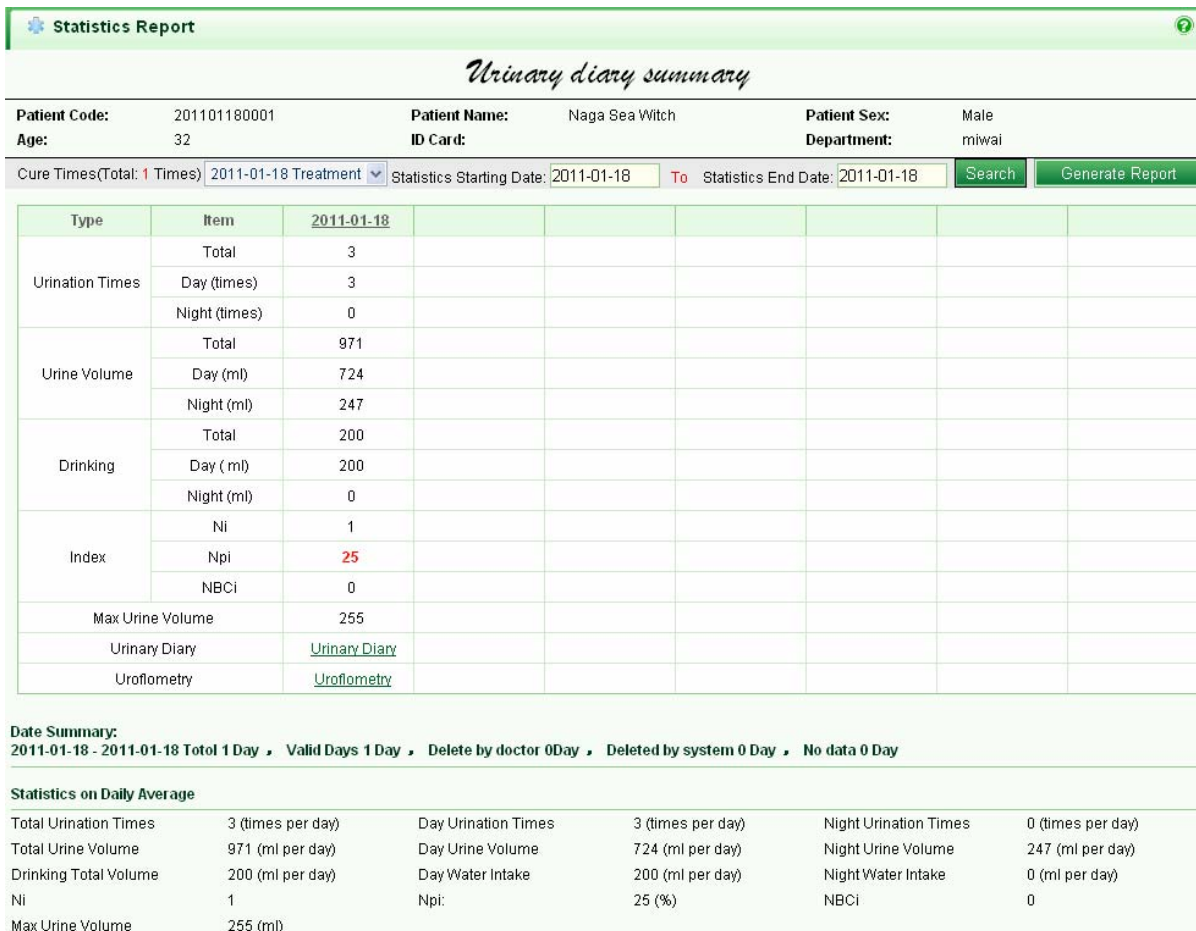



Figure 12.1 Urinary diary summary

- Basic patient information: Patient No., name, gender, age, ID card No., register department, and visit times.
- Statistics start time and end time: The start and end time of the urination statistics.
- Statistics information: The statistics items include urination times, urine volume, water intake, Max. urine volume, viewing urinary diary, viewing uroflometry, and mean value statistics.
- Urine volume statistics: Including four curve charts: daily urine volume, daytime urine volume, nocturia volume, and total water intake. Click [Animation](#) to display the Flash.
- Urination times statistics: Including three curve charts: total daily urination times, daytime urination times, and nocturia urination times. Click [Animation](#) to display the

Flash.

- **Diagnosis Information:** You can enter the diagnosis information in the diagnosis remarks, select the report generation date, and click  to print the page.
- **Generate Report: For details, see 0.**
- **Print Preview:** Click the button to access the print preview interface. You can print the urinary diary summary by an online printer.

12.2 Urinary Diary

The urinary diary describes the following information:

1. Urination details of every day in the statistical period, including urination time, urine volume, drinking time, and water intake
2. Urination summary of every day in the statistical period, including daytime urination times, night urination times, total daytime urine volume, total nocturia volume, total urination times, total urine volume, and total water intake;
3. Indexes: including Nocturnal Index (NI), Nocturia polyuria Index (NPI), and Nocturnal Bladder Capacity Index (NBCI). The calculation of the three indexes is as follows:

1. NI

$NI = \text{Nocturnal Urine Volume (NUV)} / \text{Max. Bladder Capacity}$

Max. bladder capacity indicates the maximum urine volume of a single urination in 24 hours

2. NPI

$NPI = \text{NUV} / \text{Total urine volume in 24 hours}$

3. NBCI

$NBCI = \text{Actual Nightly Voids (ANV)} - \text{Predicted Number of Nightly Voids (PNV)}$

$PNV = Ni - 1$

Calculate the nocturia volume based on **NightMictTime** (which specifies when the first urine volume after get-up is counted as the nocturia volume of the previous day.

NightMictTime is set to **1** by default). The first urine volume within 1 hour after get-up is counted as the nocturia volume of the previous day. The first urination within 1 hour after get-up, however, is regarded as the record of daytime urination times instead of the urination times of the previous night.

Get-up time and sleep time of every day is displayed in the urinary diary.

Click [Urinary Diary](#) in the urinary diary summary interface to access the urinary diary interface, as shown in Figure 12.2.

Statistic Report ?

Urinary Diary

Patient Code: 201101180001 **Patient Name:** Naga Sea Witch **Patient Sex:** Male
Age: 32 **ID Card:** **Department:** miwai

Statistics Starting Date: - Statistics End Date:

2011-01-18

Day:(get-up time 2011-01-18 11:00) Night:(Sleep Time 2011-01-18 16:02)											
	Time	Urine Volume (Proportion)	Water Intake	View	Delete		Time	Urine Volume (Proportion)	Water Intake	View	Delete
	1:29 PM	235(1000000.000)		Uroflometry	✘	Day	4:02 PM	255(1.010)			✘
Day	2:03 PM	234(1000000.000)		Uroflometry	✘	Night	2011-01-19 09:03	247			✘
	4:01 PM		200		✘						

Statistics Starting Date: To Statistics End Date:

Duration	Total Urination Times	Total Urine Volume	Total Drinking Times	Total Water Intake
----------	-----------------------	--------------------	----------------------	--------------------

Figure 12.2 Urinary diary

- **Search:** Enter the statistics start date and end date. The system displays the urination information in the period.
- **Mark Invalidated data and remove:** Mark the data in certain day as invalid data so that the data is out of statistics. Click . The system displays the confirming dialog box, as shown in Figure 12.3. Click **OK**. The data is deleted.



Figure 12.3


You can delete the data of certain time in the urinary diary interface. Click . The system displays a confirming dialog box, as shown in Figure 12.4. The deleted data is out of statistics.




Figure 12.4

Click [Uroflometry](#) to view to uroflometry chart of a single urination.

Note: You can delete information about urination & water intake only after being granted the deletion right.

You can select the statistics start time and end time (Month date, Year Hour Minute) in the urinary diary statistics table, as shown in Figure 12.1. The statistics items include total urination times, total urine volume, total drinking times, and total water intake.

Click  to back to the medical record information list.

12.3 Uroflometry Report

Click [Uroflometry](#) in the urinary diary summary interface, as shown in Figure 12.1. The system displays the uroflometry report interface, as shown in Figure 12.5 (taking the data in 30s as an example). The data contains basic patient information, test times, uroflometry chart,

urine volume chart, statistics, and diagnosis.

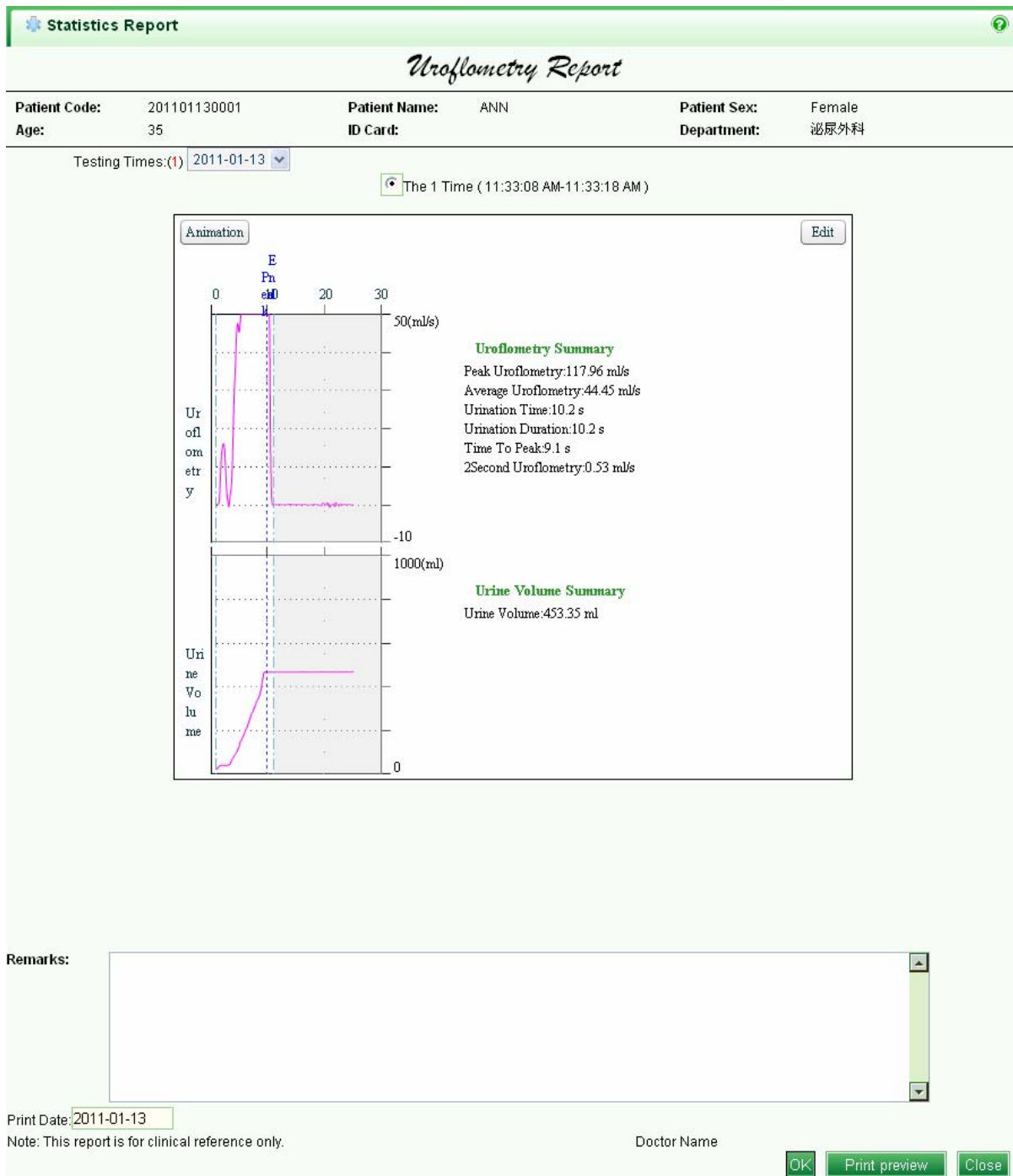




Figure 12.5 Uroflometry report

1. Patient information: Including patient No., name, gender, age, ID card No., and register department.
2. Test times: You can view the urination data of different dates. Select **Avg. Uroflometry**

& urine volume for current day to view the average uroflometry and urine volume for the current day. Select **1st** or **2nd** to view uroflometry and urine volume of a single urination.

3. Statistics: The urination statistics is under the charts by default, including mean uroflometry value for the current day and 24 h virtual uroflometry.

4. Diagnosis remarks: you can work out the diagnosis remarks based on charts and statistics. Select the report generation date, and then click **OK** to save the current report.


Click  to access the print preview interface. Click  to close the urinary diary report interface.

5. Uroflometry & urine volume chart: Put your mouse on a point, related information is displayed, for example, (46.3s, 4.75 mL/s).

Click  to display the Flash. Click  to access the full screen mode.

For details, see 12.3.1.

12.3.1 Editing Flash

Click  to access the full screen interface. The tool bar is on the top. The graph is on the bottom, as shown in Figure 12.6.

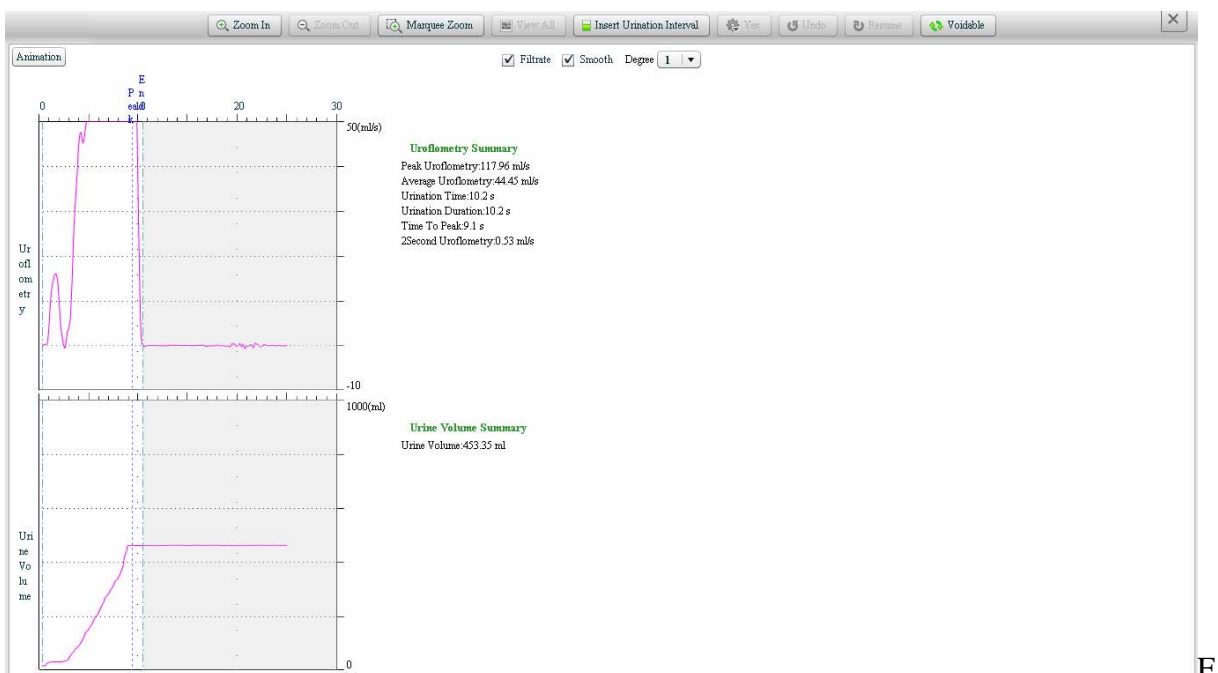



Figure 12.6 Uroflometry & urine volume chart

12.3.1.1 Image

The uroflometry & urine volume chart shows the uroflometry curve (mL/s), uroflometry summary, urine volume curve (mL), and urine volume summary. In the Flash, completed information is displayed in any point, for example, (46.3s,4.75 mL/s), as shown in Figure 12.6.

12.3.1.2 Tool Bar

The tool bar contains the following functions: Zoom In, Zoom Out, Marquee Zoom, Insert urination interval, Save, Undo, Redo, Recalculate, and Exit.

- Zoom In: Click the button to magnify the image. When the image zoom is over 100%, the mouse type becomes . You can drag the image to up, down, left, or right.
- Zoom Out: Click the button to minimize the image. When the image zoom proportion is over 100%, the button is available and in black. When the image zoom proportion is 100%, the button is unavailable and in grey.
- Marquee Zoom: Click the button to magnify the framed image.
- View All: Click the button to recover the 100% image.
- Insert urination interval: Click the button to remove the urination interval.


Click **Insert urination interval**. Then, move your mouse on the uroflometry & urine volume chart. There are two lines accompanying the mouse trace. Click your mouse on a point. Two green lines are displayed on the chart. The distance between the two lines indicates a urination interval. You can move the two lines and then click **Save**. In this case, the interval is out of statistics.

You can only click **Insert urination interval** in the space without an interval.


- Save: Click the button to save the image that is adjusted or edited.
- Undo: Click the button to cancel the preceding act.
- Redo: Recover the preceding canceled operation.

- Cancel All: Cancel all operations on the image.
- Exit: Click the button to exit the full screen interface and back to the uroflometry & urine volume chart, as shown in Figure 12.6.



12.3.2 Print Preview

Click  to access the print preview interface and click the uroflometry & urine volume chart with an online printer.

12.4 Urinary Diary Report

Click  in the urinary diary summary interface. The system accesses the urinary diary report interface. The report contains the following information: basic patient information, urinary diary statistical table, mean value statistics of the urinary diary summary, optional print, urinary diary report table, and diagnosis.

- Patient information: Including patient No., name, gender, age, ID card No., and register department.
- Urinary diary statistical table: The statistics items include urination times, urine volume, water intake, indexes, Max. urine volume, viewing urinary diary, and viewing uroflometry.
- Mean value statistics of the urinary diary summary: Data summary of the urinary diary statistical table.
- Optional print: Including urination times, NPI, urine volume, water intake, NI, NBCI, and uroflometry. Select an item. The corresponding image is displayed in the urinary diary report. For example, when you select uroflometry, the uroflometry report interface is displayed.
- Urinary diary report table: select the table to be printed based on customer requirements. The corresponding curve is displayed.
 - a) Urination times: Including total urination times, daytime urination times, and night urination times.

- b) NPI: The chart of nocturia frequency index.
 - c) Urine volume statistics: Including total urine volume, daytime urine volume, and nocturia volume.
 - d) Water intake statistics: Including water intake in a day, daytime water intake, and nocturia volume.
 - e) NI and NBCI: the two curves about NI and NBCI.
 - f) Uroflometry: Access the uroflometry report interface to view the information & chart about uroflometry and urine volume.
- **Diagnosis:** You can work out the diagnosis based on charts and statistics. Select the report generation data, and then click **OK** to save the current report. Click  to access the print preview interface. Click  to close the urinary diary report interface.

FCC NOTE:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:(1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Urinary Diary Report

Patient Code: 201101130001 **Patient Name:** ANN **Patient Sex:** Female
Age: 35 **ID Card:** **Department:** 泌尿外科

Statistics Type	Statistics Item	2011-01-13					
Urination Times	Total	5					
	Day Urination Times	5					
	Night Urination Times	0					
Urine Volume	Total	924					
	Day Urine Weight	924					
	Night Urine Weight	0					
Water Intake	Total	0					
	Day Drinking Gravity	0					
	NG=Night Water Intake:	0					
Index	Ni	0					
	Npi	0					
	NBCi	1					
Max Urine Volume		460					

Date Summary:
 2011-01-13 - 2011-01-13 Total 1 Day , Valid Days 1 Day , Deleted by doctor 0Day , Deleted by system 0 Day , No Data 0 Day

Average Urination Statistics

Total Urination Times:	5 (times per day)	Day Urination Times:	5 (times per day)	Night Urination Times:	0 (times per day)
Total Urine Volume:	924 (ml per day)	Day Urine Volume:	924 (ml per day)	Night Urine Volume:	0 (ml per day)
Total Water Intake:	0 (ml per day)	Day Drinking Volume:	0 (ml per day)	Night Water Intake:	0 (ml per day)
Ni	0	Npi:	0 (%)	NBCi	1
Max Micturate:	460 (ml)				

选择打印图表: Urination Times Ni Urine Volume Drinking Volume Ni NBCi Uroflowmetry [Select Chart](#)

remarks

Report Date: 2011-01-13

Note: This report is for clinical reference only

Doctor Name

Figure 6.27 Urinary diary report